CATALOG

HOMAC

Substation connectors

Thomas & Betts is now ABB Installation Products, but our long legacy of quality products and innovation remains the same. From connectors that help wire buildings on Earth to cable ties that help put machines in space, we continue to work every day to make, market, design and sell products that provide a smarter, safer and more reliable flow of electricity, from source to socket.

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Weld aluminum connectors

Quick reference – Weld tee connectors

01 Type AWY-15-15
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02 Type AWT
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03 Type AWTA-15
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04 Type AWTA-2-15
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05 Type AWBT
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06 Type AWBT-90
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07 Type AWT
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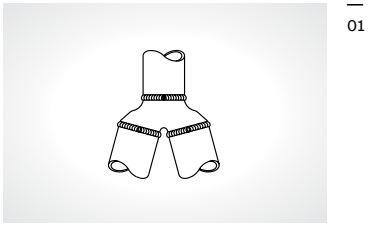
01



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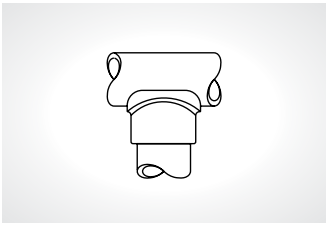

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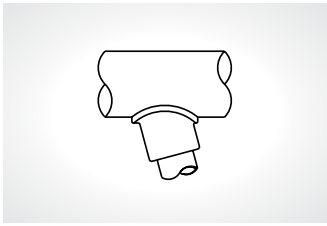

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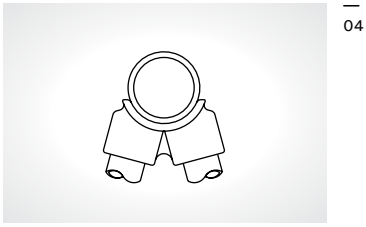

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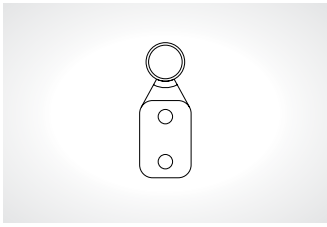

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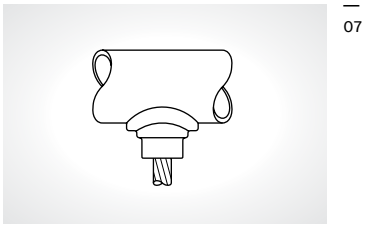

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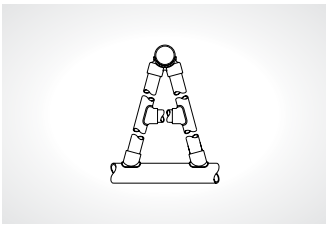

Weld couplers

01 Type WALB
See page 12

02 Type AWCE & AWCL
See page 13

03 Type AWBE-90 & 45
See page 13

04 Type AWDC
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05 Type WAFG
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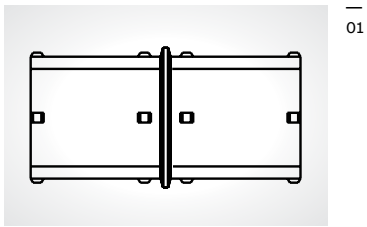
06 Type WASC
See page 14

01



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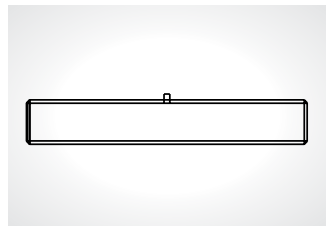

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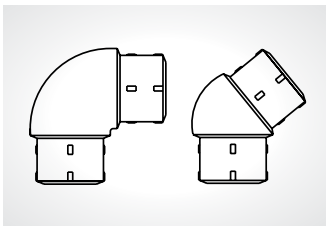

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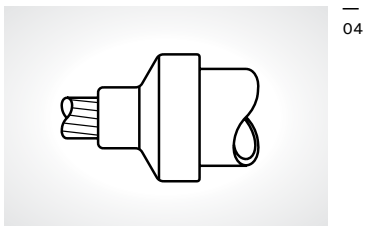

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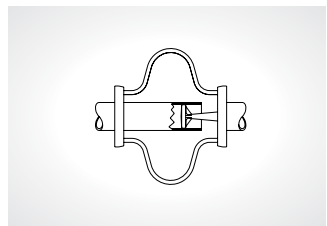

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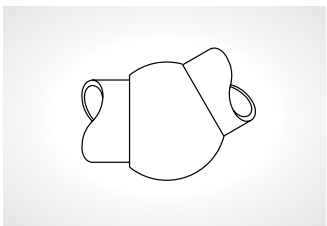


Weld aluminum connectors

Quick reference – Weld terminals

01 Type AWF
See page 16

02 Type AWF-45
See page 17

03 Type AWF-90
See page 18

04 Type AWEE
See page 19

05 Type AWEPC
See page 21

06 Type AWEPF
See page 22

07 Type AWM
See page 23

08 Type AWM-45
See page 26

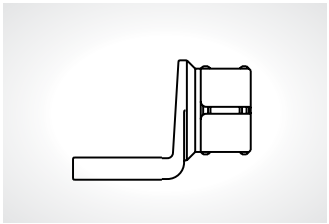
09 Type AWM-90
See page 29

10 Type AWMM
See page 32

11 Type AWMM-45
See page 35

12 Type AWMM-90
See page 38

01



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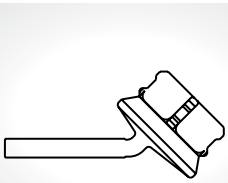

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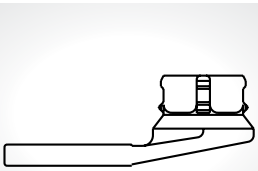

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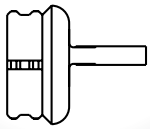

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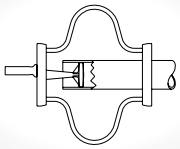

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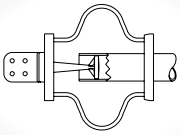

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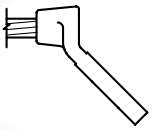

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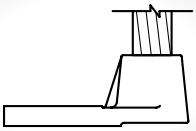

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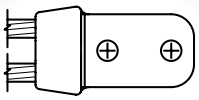

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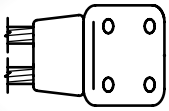

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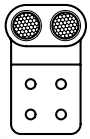
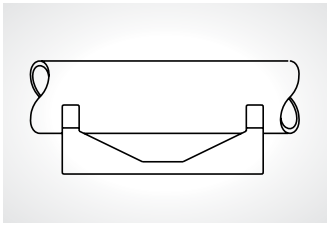


Weld aluminum connectors

Quick reference – Weld bus supports

01 Type AWBP
See page 41
02 Type AWBQ
See page 43
03 Type AWBS
See page 42
04 Type WAXB
See page 44
05 Type AWPX
See page 45
06 Type AWECC
See page 46

01



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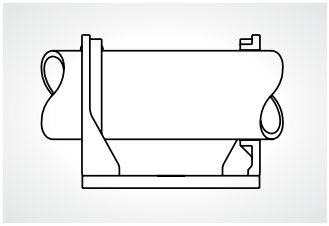

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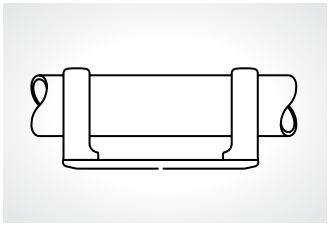

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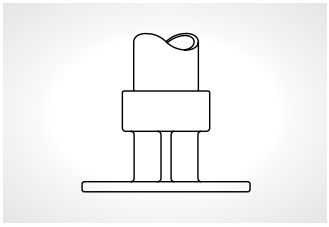

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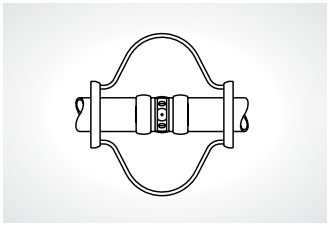
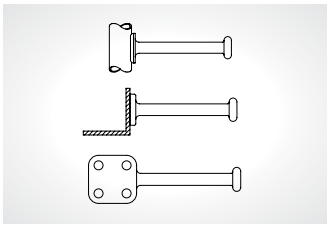


Quick reference – Miscellaneous

01 Type AWGS
See page 46
02 Type AWNP
See page 40

01



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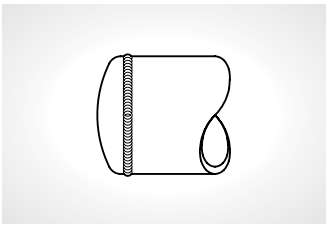
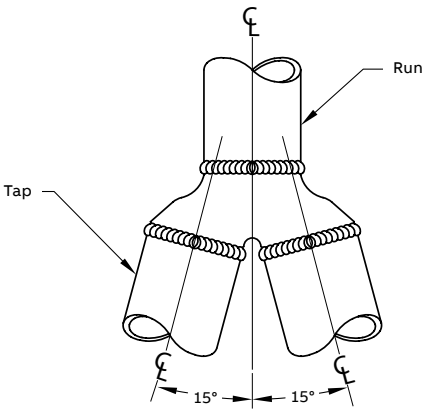


Type AWY-15-15 – Weld "Y" connector pipe run to two pipe taps, each at 15° internal fit



Cat. no.	Run SPS (in.)	Tap SPS (in.)
AWY-F-F2-15	1	1
AWY-G-G2-15	1¼	1¼
AWY-H-H2-15	1½	1½
AWY-J-J2-15	2	2
AWY-K-K2-15	2½	2½
AWY-L-L2-15	3	3
AWY-M-M2-15	3½	3½
AWY-P-P2-15	4	4
AWY-R-R2-15	5	5
AWY-S-S2-15	6	6

For schedule 80 pipe, add "H" to catalog number; e.g. AWYH-P-P2-15.
For other configurations, consult customer service.

Weld aluminum connectors

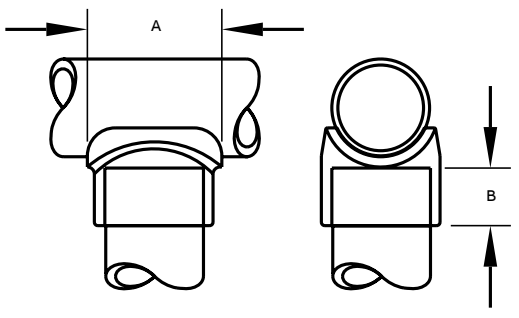
Type AWT – Weld tee connector, pipe to pipe

Type AWT – Weld tee connector, pipe to pipe

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
AWT-E-E	¾	¾	2½	1
AWT-F-E	1	¾	2½	1
AWT-F-F		1	1 13/16	1 13/32
AWT-G-E	1¼	¾	2¾	1
AWT-G-F		1		
AWT-G-G		1¼		
AWT-H-E	1½	¾	3	1
AWT-H-F		1		2¼
AWT-H-G		1¼		1¼
AWT-H-H		1½		1
AWT-J-E	2	¾	3 11/16	1
AWT-J-F		1	2¾	1⅛
AWT-J-G		1¼	3	1
AWT-J-H		1½	3 11/16	1
AWT-J-J		2	3 11/16	1
AWT-K-E	2½	¾	3	1
AWT-K-F		1	3	1
AWT-K-G		1¼	3½	1¼
AWT-K-H		1½	4⅜	1¼
AWT-K-J		2	4⅜	1¼
AWT-K-K		2½	4⅜	1¼
AWT-L-E	3	¾	3	1
AWT-L-F		1	3	1
AWT-L-G		1¼	2⅞	1
AWT-L-H		1½	3½	1⅝
AWT-L-J		2	4	1
AWT-L-K		2½	4 13/16	1¼
AWT-L-L		3	4¾	2 1/16
AWT-M-E	3½	¾	3	1
AWT-M-F		1	4⅜	1½
AWT-M-G		1¼	2 11/16	1
AWT-M-H		1½	3¼	1

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
AWT-M-J	3½	2	4	1¾
AWT-M-K		2½	5	2
AWT-M-L		3	4 13/16	1⅝
AWT-M-M		3½	5⅜	1½
AWT-P-E	4	¾	3	1⅛
AWT-P-F		1	3½	1⅛
AWT-P-G		1¼	2⅝	1
AWT-P-H		1½	3 3/16	1
AWT-P-J		2	4½	1
AWT-P-K		2½	4¾	2
AWT-P-L		3	4½	1¼
AWT-P-M		3½	5	1½
AWT-P-P		4	5 13/16	1½
AWT-R-E	5	¾	2	¾
AWT-R-F		1	2⅜	¾
AWT-R-G		1¼	2⅝	1
AWT-R-H		1½	3	1
AWT-R-J		2	3¾	2
AWT-R-K		2½	4⅛	1¼
AWT-R-L		3	4⅞	1¼
AWT-R-M		3½	4⅞	3
AWT-R-P		4	6⅜	1½
AWT-R-R		5	7	1½
AWT-S-E	6	¾	2	¾
AWT-S-F		1	2⅜	¾
AWT-S-H		1¼	2⅝	1
AWT-S-H		1½	3	1
AWT-S-J		2	3⅝	1
AWT-S-K		2½	4⅛	1¼
AWT-S-L		3	4⅞	1¼
AWT-S-M		3½	6 5/16	1½
AWT-S-P		4	5⅞	1½
AWT-S-R		5	6⅞	1½
AWT-S-S		6	8	1½

Dimensions



Weld aluminum connectors

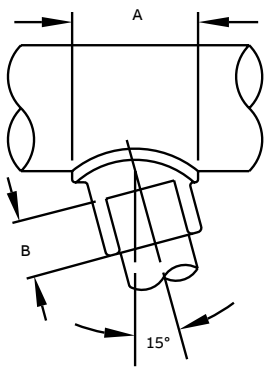
Type AWTA-15 – Weld tee connector, pipe run to pipe tap at 15°

Type AWTA-15 – Weld tee connector, pipe run to pipe tap at 15°

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
AWTA-E-E15	¾	¾	2	¾
AWTA-F-E15	1	¾	2	¾
AWTA-F-F15		1	2⅜	¾
AWTA-G-E15	1¼	¾	2	¾
AWTA-G-F15		1	2⅜	¾
AWTA-G-G15		1¼	2 13⁄16	1
AWTA-H-E15	1½	¾	2	¾
AWTA-H-F15		1	3	1
AWTA-H-G15		1¼	3⅜	1½
AWTA-H-H15		1½	3	1
AWTA-J-E15	2	¾	2	¾
AWTA-J-F15		1	3	1
AWTA-J-G15		1¼	3¼	1½
AWTA-J-H15		1½	3¾	1½
AWTA-J-J15		2	4	1¾
AWTA-K-E15	2½	¾	2	¾
AWTA-K-F15		1	2⅜	¾
AWTA-K-G15		1¼	3¼	1
AWTA-K-H15		1½	3½	1½
AWTA-K-J15		2	3⅝	1
AWTA-K-K15		2½	4¾	1¼
AWTA-L-F15	3	1	3¼	1
AWTA-L-G15		1¼	3½	1¼
AWTA-L-H15		1½	3½	1½
AWTA-L-J15		2	4	1
AWTA-L-K15		2½	4¼	1¼
AWTA-L-L15		3	4¾	1¼

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
AWTA-M-F15	3½	1	3½	1½
AWTA-M-G15		1¼	3	1
AWTA-M-H15		1½	3½	1½
AWTA-M-J15		2	5¼	1
AWTA-M-K15		2½	4⅛	1¼
AWTA-M-L15		3	4⅞	1¼
AWTA-M-M15		3½	5⅜	1½
AWTA-P-F15	4	1	2⅜	¾
AWTA-P-G15		1¼	2⅝	1
AWTA-P-H15		1½	3½	1½
AWTA-P-J15		2	4½	1¾
AWTA-P-K15		2½	5	1
AWTA-P-L15		3	6	1¼
AWTA-P-M15		3½	6	1½
AWTA-P-P15		4	5⅞	1½
AWTA-R-J15	5	2	4¾	1
AWTA-R-K15		2½	5	1¼
AWTA-R-L15		3	4⅞	1¼
AWTA-R-M15		3½	5	1½
AWTA-R-P15		4	6⅞	1½
AWTA-R-R15		5	6⅞	1½
AWTA-S-L15	6	2	3⅝	1
AWTA-S-K15		2½	4½	1¼
AWTA-S-L15		3	4¾	2
AWTA-S-M15		3½	5	1½
AWTA-S-P15		4	5⅞	1½
AWTA-S-R15		5	6⅞	1½
AWTA-S-S15		6	8	1½

Dimensions



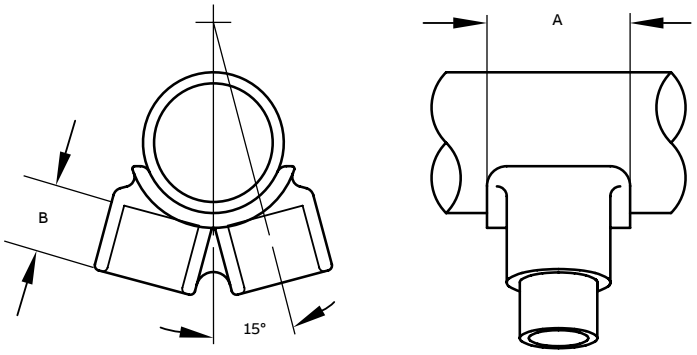
Weld aluminum connectors

Type AWTA-2-15 – Weld vee connector, pipe run to two pipe taps, each at 15°

Type AWTA-2-15 – Weld vee connector, pipe run to two pipe taps, each at 15°

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
AWTA-E-E2-15	¾	¾	2½	1⅛
AWTA-F-E2-15	1	¾	2	¾
AWTA-F-F2-15		1	2¾	1
AWTA-G-E2-15	1¼	¾	2	¾
AWTA-G-F2-15		1	2⅜	¾
AWTA-G-G2-15		1¼	2⅝	1
AWTA-H-E2-15	1½	¾	2	1
AWTA-H-F2-15		1	3	
AWTA-H-G2-15		1¼	2⅝	
AWTA-H-H2-15		1½	3½	
AWTA-J-E2-15	2	¾	2	¾
AWTA-J-F2-15		1	2⅜	1
AWTA-J-G2-15		1¼	3¼	¾
AWTA-J-H2-15		1½	3½	1½
AWTA-J-J2-15		2	4	1
AWTA-K-E2-15	2½	¾	2	¾
AWTA-K-F2-15		1	3¼	1½
AWTA-K-G2-15		1¼	3¼	1
AWTA-K-H2-15		1½	3½	1
AWTA-K-J2-15		2	4	1¾
AWTA-K-K2-15		2½	4⅛	1¼
AWTA-L-F2-15	3	1	3	1
AWTA-L-G2-15		1¼	3¼	1¼
AWTA-L-H2-15		1½	3½	1½
AWTA-L-J2-15		2	4⅞	1⅛
AWTA-L-K2-15		2½	4¼	1¼
AWTA-L-L2-15		3	4¾	1¼
AWTA-M-F2-15	3½	1	3	1
AWTA-M-G2-15		1¼	3¼	½
AWTA-M-H2-15		1½	3¾	1½
AWTA-M-J2-15		2	4¼	1¼
AWTA-M-K2-15		2½	4⅛	1¼
AWTA-M-L2-15		3	5	1¼
AWTA-M-M2-15		3½	5¼	1½
AWTA-P-F2-15	4	1	2⅜	¾
AWTA-P-G2-15		1¼	2⅝	1
AWTA-P-H2-15		1½	4¼	1¾
AWTA-P-J2-15		2	4¼	1¾
AWTA-P-K2-15		2½	5	1¼
AWTA-P-L2-15		3	4⅜	1½
AWTA-P-M2-15		3½	5	1½
AWTA-P-P2-15		4	5⅞	1½
AWTA-R-J2-15	5	2	4¼	1¾
AWTA-R-K2-15		2½	4¾	1¾
AWTA-R-L2-15		3	4⅞	1¼
AWTA-R-M2-15		3½	5⅜	1½
AWTA-R-P2-15		4	6	1½
AWTA-R-R2-15		5	6⅞	1½
AWTA-S-J2-15	6	2	4½	1¾
AWTA-S-K2-15		2½	4⅛	1¼
AWTA-S-L2-15		3	4⅞	2⅝
AWTA-S-M2-15		3½	5⅜	1½
AWTA-S-P2-15		4	5⅞	1½
AWTA-S-R2-15		5	6⅞	1½
AWTA-S-S2-15		6	8	1½

Dimensions

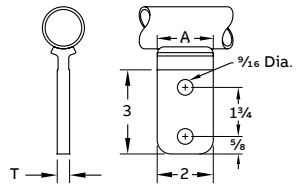


Weld aluminum connectors

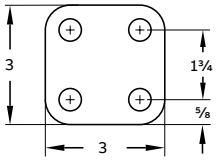
Type AWBT and Type AWBT-90 – Weld tee connectors

Type AWBT – Weld tee connector, pipe run to flat tap

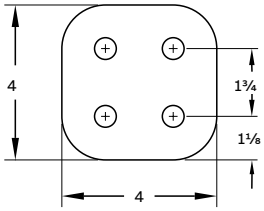
Cat. no.	Run SPS (in.)	Amps	A (in.)	T (in.)
2-Hole NEMA flat				
AWBT-E-2N	¾	600	2	7/16
AWBT-FK-2N	1–2½			
AWBT-LS-2N	3–6			
3" 4-Hole NEMA flat				
AWBT-E-4N	¾	1200	3	9/16
AWBT-FK-4N	1–2½			
AWBT-LS-4N	3–6			
4" 4-Hole NEMA flat				
AWBT-E-4NN	¾	2000	4	**11/16**
AWBT-FK-4NN	1–2½			
AWBT-LS-4NN	3–6			



2-Hole NEMA flat



3" 4-Hole NEMA flat

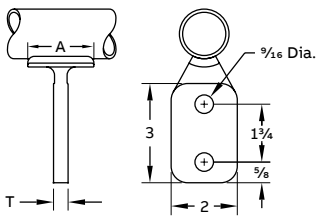


4" 4-Hole NEMA flat

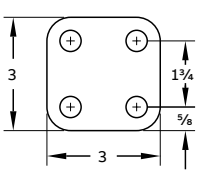
Type AWBT-90 – Weld tee connector, pipe to 90° flat

Cat. no.	Run SPS (in.)	Amps	A (in.)	T (in.)
2-Hole NEMA flat				
AWBT-E-2N90	¾	600	2	7/16
AWBT-FK-2N90	1–2½			
AWBT-LS-2N90	3–6			
3" 4-Hole NEMA flat				
AWBT-E-4N90	¾	1200	3	9/16
AWBT-FK-4N90	1–2½			
AWBT-LS-4N90	3–6			
4" 4-Hole NEMA flat				
AWBT-E-4NN90	¾	2000	4	**11/16**
AWBT-FK-4NN90	1–2½			
AWBT-LS-4NN90	3–6			

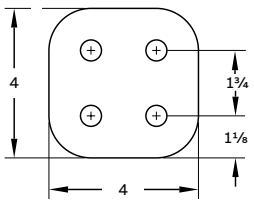
All pads are finished on both sides.



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Weld aluminum connectors

Type AWT – Weld tee connector, pipe to cable

Pipe run

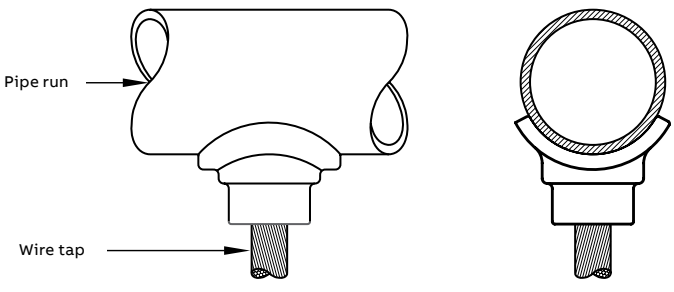
Pipe size sch. 40 or 80 (in.)	Letter
1	F
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P
5	R
6	S

For other configurations, consult customer service.

Catalog numbers will be designated from the following information:
AWT - (pipe run) - (* wire tap)
e.g.: AWT - R - *

* Wire size type (AAC, ACSR) stranding must be supplied in order to designate the proper tap size.

Dimensions



Weld aluminum connectors

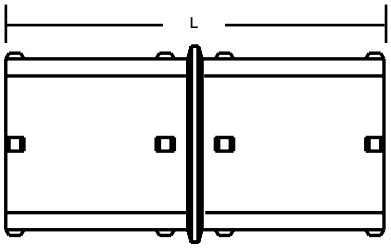
Type WALB – Internal weld cast coupler, pipe to pipe

Type WALB – Internal weld cast coupler, pipe to pipe

Cat. no.	Run SPS (in.)	Tap SPS (in.)	L (in.)
WALB-E	¾	¾	2¼
WALB-F-E	1	¾	2¼
WALB-F		1	2¼
WALB-G-E	1¼	¾	2½
WALB-G-F		1	2½
WALB-G		1¼	2⅞
WALB-H-E	1½	¾	2¾
WALB-H-F		1	2¾
WALB-H-G		¼	3
WALB-H		1½	3¼
WALB-J-E	2	¾	3¼
WALB-J-F		1	3¼
WALB-J-G		1¼	3⁵⁄₁₆
WALB-J-H		1½	3¾
WALB-J		2	4¼
WALB-K-E	2½	¾	3¾
WALB-K-F		1	3¾
WALB-K-G		1¼	4
WALB-K-H		1½	4¼
WALB-K-J		2	5
WALB-K		2½	5¼
WALB-L-E	3	¾	4¼
WALB-L-F		1	4¼
WALB-L-G		1¼	4½
WALB-L-H		1½	4¾
WALB-L-J		2	5¼
WALB-L-K		2½	5¾
WALB-L		3	6¾
WALB-M-E	3½	¾	4¾
WALB-M-F		1	4¾
WALB-M-G		1¼	5
WALB-M-H		1½	5¼
WALB-M-J	3½	2	5¾
WALB-M-K		2½	6¼
WALB-M-L		3	6¾
WALB-M		3½	7¼
WALB-P-E	4	¾	5½
WALB-P-F		1	5½
WALB-P-G		1¼	5½
WALB-P-H		1½	5¾
WALB-P-J		2	6⅜
WALB-P-K		2½	6⅞
WALB-P-L		3	7⅜
WALB-P-M		3½	7⅞
WALB-P		4	8⅜
WALB-R-E	5	¾	6⅜
WALB-R-F		1	6⅜
WALB-R-G		1¼	6⅝
WALB-R-H		1½	6⅞
WALB-R-J		2	7⅜
WALB-R-K		2½	7⅞
WALB-R-L		3	8⅜
WALB-R-M		3½	8⅞
WALB-R-P		4	9⅜
WALB-R		5	10⅜
WALB-S-E	6	¾	7⅜
WALB-S-F		1	7⅜
WALB-S-G		1¼	7⅝
WALB-S-H		1½	7⅞
WALB-S-J		2	8⅜
WALB-S-K		2½	8⅞
WALB-S-L		3	9⅜
WALB-S-M		3½	9⅞
WALB-S-P		4	10⅜
WALB-S-R		5	11⅜
WALB-S		6	12⅜

For schedule 80 pipe, add “H” to catalog number; e.g. WALBH-J-F.

Dimensions



Weld aluminum connectors

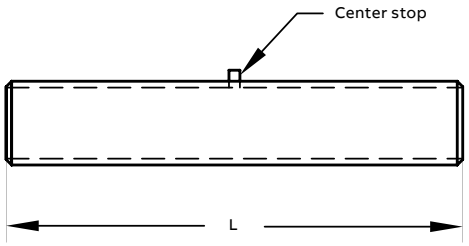
Type AWCE, AWCL and AWBE

Type AWCE and AWCL – Internal weld extruded coupler, pipe to pipe

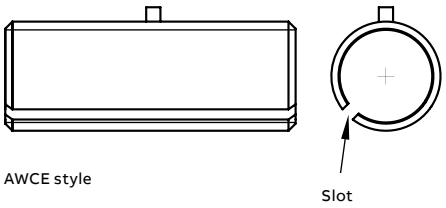
Cat. no.	Cat. no.	SPS (in.)	L (in.)
AWCL-E	AWCE-E	¾	4½
AWCL-F	AWCE-F	1	6
AWCL-G	AWCE-G	1¼	7
AWCL-H	AWCE-H	1½	9
AWCL-J	AWCE-J	2	12
AWCL-K	AWCE-K	2½	10¼
AWCL-L	AWCE-L	3	18
AWCL-M	AWCE-M	3½	21
AWCL-P	AWCE-P	4	24
AWCL-R	AWCE-R	5	24
AWCL-S	AWCE-S	6	24
AWCL-V	AWCE-V	8	24
AWCL-V8	AWCE-V8	8 O.D.	24

For schedule 80 pipe, add “H” to catalog number; e.g. AWCLH-J.
Couplers suitable for installation at any system voltage.

Dimensions



AWCL style



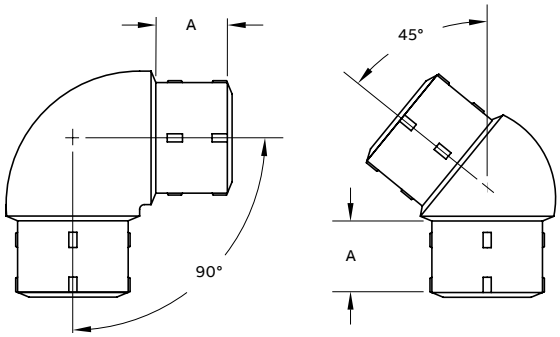
AWCE style

Type AWBE – Weld elbow, pipe to pipe

Cat. no.			
90°	45°	SPS (in.)	A (in.)
AWBE-F-90	AWBE-F-45	1	2
AWBE-G-90	AWBE-G-45	1¼	2½
AWBE-H-90	AWBE-H-45	1½	3
AWBE-J-90	AWBE-J-45	2	3
AWBE-K-90	AWBE-K-45	2½	3
AWBE-L-90	AWBE-L-45	3	3
AWBE-M-90	AWBE-M-45	3½	4
AWBE-P-90	AWBE-P-45	4	5
AWBE-R-90	AWBE-R-45	5	5
AWBE-S-90	AWBE-S-45	6	6

For schedule 80 pipe, add “H” to catalog number; e.g. AWBEH-J-90.
For other configurations, consult customer service.

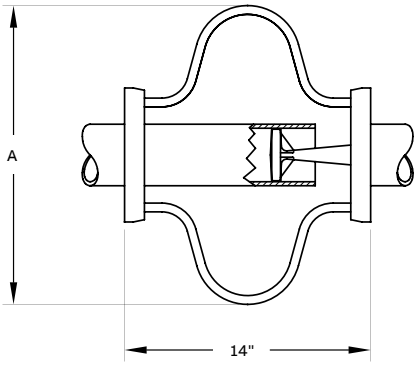
Dimensions



Weld aluminum connectors

Type WAFG and WASC

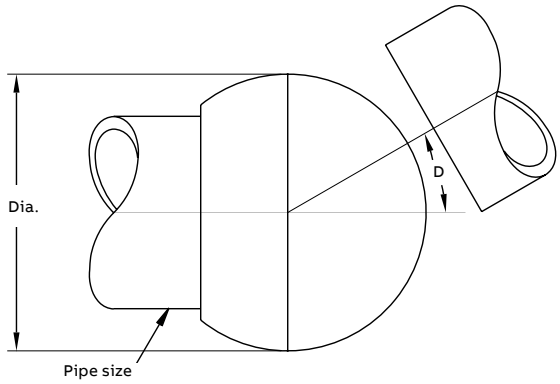
Type WAFG – Weld expansion coupler, pipe to pipe



Cat. no.	SPS (in.)	A max. (in.)	Amps
WAFG-G	1¼	11	930
WAFG-H	1½	11	1070
WAFG-J	2	12½	1355
WAFG-K	2½	12½	1780
WAFG-L	3	14	2195
WAFG-M	3½	14	2530
WAFG-P	4	17	2800
WAFG-R	5	19	3000
WAFG-S	6	19	3000

For schedule 80, add "H" to catalog number; e.g. WAFGH-K.
Use chart GA-735 for installation. See technical information on page 174.

Type WASC – Spherical coupler, pipe to pipe

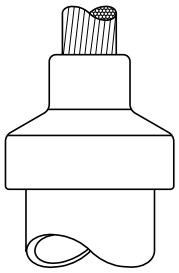


Cat. no.	SPS (in.)	Dia. (in.)	D max.°
WASC-F	1	4½	110
WASC-G	1¼	4½	100
WASC-H	1½	4½	90
WASC-J	2	5	115
WASC-K	2½	5	90
WASC-L	3	8	105
WASC-M	3½	8	100
WASC-P	4	8	90
WASC-R	5	9½	90
WASC-S	6	11	90

Weld aluminum connectors

Type AWDC – Weld coupler, pipe to cable

Type AWDC – Weld coupler, pipe to cable



Pipe size sch. 40 or 80 (in.)	Letter
1	F
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P
5	R
6	S

For other configurations, consult customer service.

Catalog numbers will be designated from the following information:
AWDC - (pipe) - (* wire)
e.g.: AWDC - R - *

* Wire size type (AAC, ACSR) stranding must be supplied in order to designate the proper coupler.

Weld aluminum connectors

Type AFRW – Welded A frames for pipe

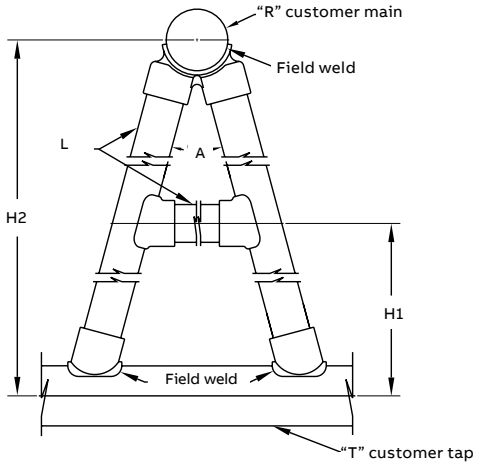
Catalog numbers will be designated by the factory.
Customer to supply the following information.*

AFRW – ☐ – ☐ – ☐ – ☐

Customer pipe run size Customer pipe tap size	**R** **T**	Brace height	**H1**	Leg height	**H2**	Leg and cross arm pipe size Angle	**L** **A**

*Please specify voltage if over 230 kV
e.g.: AFRW-RL-48-108-J15

Dimensions



Weld aluminum connectors

Type AWF – Weld terminal, pipe to flat

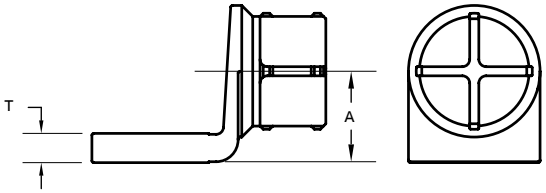
Type AWF – Weld terminal, pipe to flat

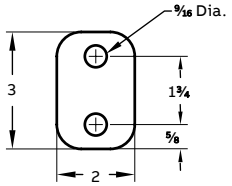
Cat. no.	SPS (in.)	A (in.)	T (in.)	Amps
2-Hole NEMA flat				
AWF-E-2N	¾	⅞	7/16	600
AWF-F-2N	1	1¼	7/16	
AWF-G-2N	1¼	1 1/16	½	
AWF-H-2N	1½	1⅝	½	
AWF-J-2N	2	1 7/16	½	
AWF-K-2N	2½	1¾	½	
AWF-L-2N	3	2 1/16	⅝	
AWF-M-2N	3½	2¼	⅞	
AWF-P-2N	4	2¼	1	
AWF-R-2N	5	3 1/16	1	
AWF-S-2N	6	3⅝	1	
3" 4-Hole NEMA flat				
AWF-E-4N	¾	⅞	7/16	495
AWF-F-4N	1	1¼		650
AWF-G-4N	1¼	1 1/16		810
AWF-H-4N	1½	1¼		930

Cat. No.	SPS (in.)	A (in.)	T (in.)	Amps
3" 4-Hole NEMA flat				
AWF-J-4N	2	1 7/16	⅝	1155
AWF-K-4N	2½	1¾	¾	1550
AWF-L-4N	3	2	1	1895
AWF-M-4N	3½	2¼	1	2170
AWF-P-4N	4	2½	⅞	2000
AWF-R-4N	5	3 1/16	⅞	2000
AWF-S-4N	6	3⅝	⅞	2000
4" 4-Hole NEMA flat				
AWF-J-4NN	2	1 7/16	⅝	1155
AWF-K-4NN	2½	1¾	⅝	1550
AWF-L-4NN	3	2	⅝	1895
AWF-M-4NN	3½	2¼	⅞	2170
AWF-P-4NN	4	3⅛	1	2460
AWF-R-4NN	5	3 1/16	1⅛	3080
AWF-S-4NN	6	3⅝	1⅞	3750

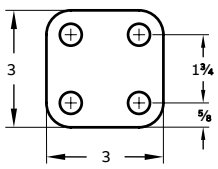
For schedule 80 pipe, add "H" to catalog number; e.g. AWFH-E-4N.
Other sizes available, consult customer service.
All pads are finished on both sides.

Dimensions

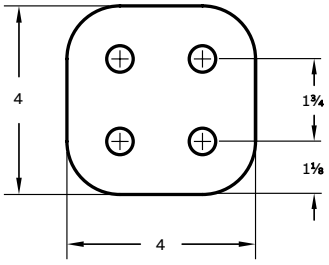




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Weld aluminum connectors

Type AWF-45 – 45° Weld terminal, pipe to flat

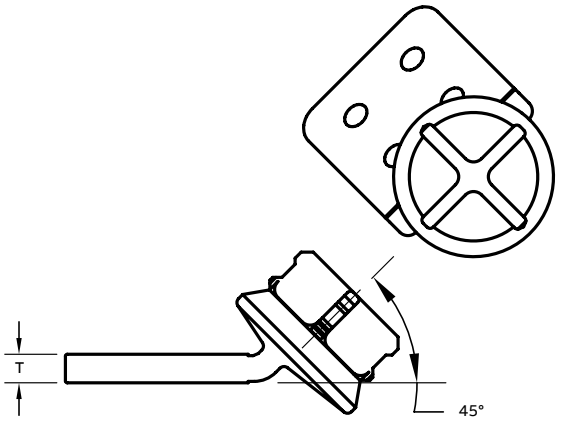
Type AWF-45 – 45° Weld terminal, pipe to flat

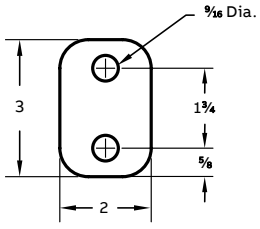
Cat. no.	SPS (in.)	T (in.)	Amps
2-Hole NEMA flat			
AWF-E-2N45	¾	⅜	600
AWF-F-2N45	1	⅜	
AWF-G-2N45	1¼	½	
AWF-H-2N45	1½	½	
AWF-J-2N45	2	½	
AWF-K-2N45	2½	½	
AWF-L-2N45	3	⅝	
AWF-M-2N45	3½	⅞	
AWF-P-2N45	4	1	
AWF-R-2N45	5	1	
AWF-S-2N45	6	1	
3" 4-Hole NEMA flat			
AWF-E-4N45	¾	½	495
AWF-F-4N45	1		650
AWF-G-4N45	1¼		810
AWF-H-4N45	1½		930

Cat. No.	SPS (in.)	T (in.)	Amps
3" 4-Hole NEMA flat			
AWF-J-4N45	2	⅝	1155
AWF-K-4N45	2½	¾	1550
AWF-L-4N45	3	¾	1895
AWF-M-4N45	3½	1	2170
AWF-P-4N45	4	⅞	2000
AWF-R-4N45	5	⅞	2000
AWF-S-4N45	6	⅞	2000
4" 4-Hole NEMA flat			
AWF-J-4NN45	2	⅝	1155
AWF-K-4NN45	2½	⅝	1550
AWF-L-4NN45	3	⅝	1895
AWF-M-4NN45	3½	⅞	2170
AWF-P-4NN45	4	1	2460
AWF-R-4NN45	5	1⅛	3080
AWF-S-4NN45	6	1⅞	3750

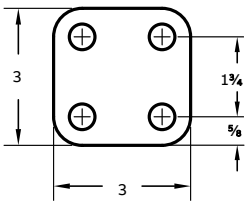
For schedule 80 pipe, add "H" to catalog number; e.g. AWFH-E-4N45.
Other sizes available; consult customer service.
All pads are finished on both sides.

Dimensions

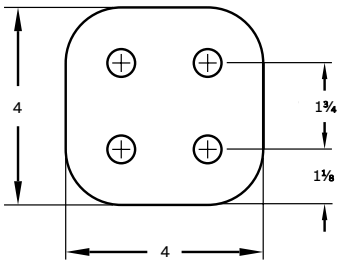




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Weld aluminum connectors

Type AWF-90 – 90° Weld terminal, pipe to flat

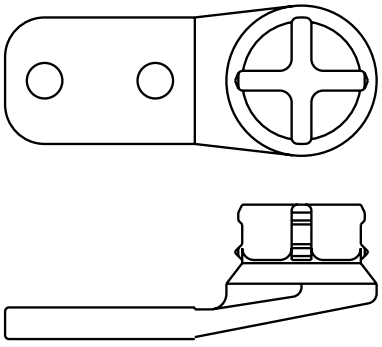
Type AWF-90 – 90° Weld terminal, pipe to flat

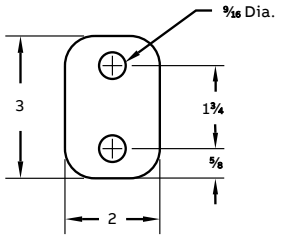
Cat. no.	SPS (in.)	T (in.)	Amps
2-Hole NEMA flat			
AWF-E-2N90	¾	⅜	600
AWF-F-2N90	1	⅜	
AWF-G-2N90	1¼	½	
AWF-H-2N90	1½	½	
AWF-J-2N90	2	½	
AWF-K-2N90	2½	½	
AWF-L-2N90	3	⅝	
AWF-M-2N90	3½	⅞	
AWF-P-2N90	4	1	
AWF-R-2N90	5	1	
AWF-S-2N90	6	1	
3" 4-Hole NEMA flat			
AWF-E-4N90	¾	⅜	495
AWF-F-4N90	1		650
AWF-G-4N90	1¼		810
AWF-H-4N90	1½		930

Cat. no.	SPS (in.)	T (in.)	Amps
3" 4-Hole NEMA flat			
AWF-J-4N90	2	⅝	1155
AWF-K-4N90	2½	¾	1550
AWF-L-4N90	3	¾	1895
AWF-M-4N90	3½	1	2170
AWF-P-4N90	4	⅞	2000
AWF-R-4N90	5	⅞	2000
AWF-S-4N90	6	⅞	2000
4" 4-Hole NEMA flat			
AWF-J-4NN90	2	⅝	1155
AWF-K-4NN90	2½	⅝	1550
AWF-L-4NN90	3	⅝	1895
AWF-M-4NN90	3½	⅞	2170
AWF-P-4NN90	4	1	2460
AWF-R-4NN90	5	1⅛	3080
AWF-S-4NN90	6	1⅞	3750

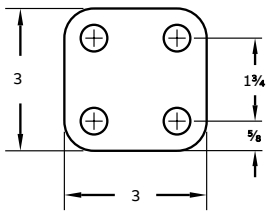
For schedule 80 pipe, add “H” to catalog number; e.g. AWFH-E-4N90.
Other sizes available; consult customer service.
All pads are finished on both sides.

Dimensions

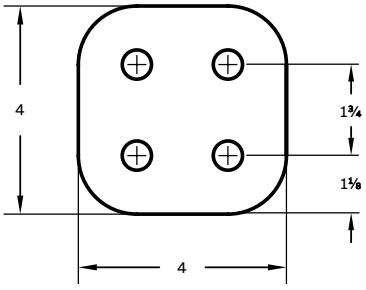




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Weld aluminum connectors

Type AWEE – Weld terminal, pipe to center-formed flat

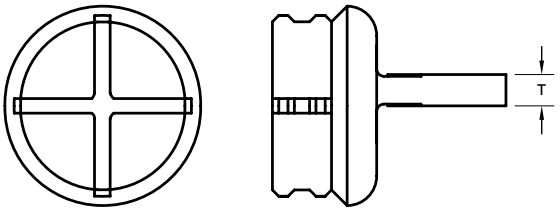
Type AWEE – Weld terminal, pipe to center-formed flat

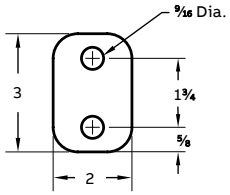
Cat. no.	SPS (in.)	T (in.)	Amps
2-Hole NEMA flat			
AWEE-E-2N	¾	⅜	600
AWEE-F-2N	1	⅜	
AWEE-G-2N	1¼	½	
AWEE-H-2N	1½	½	
AWEE-J-2N	2	½	
AWEE-K-2N	2½	½	
AWEE-L-2N	3	⅝	
AWEE-M-2N	3½	⅞	
AWEE-P-2N	4	1	
AWEE-R-2N	5	1	
AWEE-S-2N	6	1	
3" 4-Hole NEMA flat			
AWEE-E-4N	¾	⅜	495
AWEE-F-4N	1		650
AWEE-G-4N	1¼		810
AWEE-H-4N	1½		930

Cat. no.	SPS (in.)	T (in.)	Amps
3" 4-Hole NEMA flat			
AWEE-J-4N	2	⅝	1155
AWEE-K-4N	2½	¾	1550
AWEE-L-4N	3	¾	1895
AWEE-M-4N	3½	1	2170
AWEE-P-4N	4	⅞	2000
AWEE-R-4N	5	⅞	2000
AWEE-S-4N	6	⅞	2000
4" 4-Hole NEMA flat			
AWEE-J-4NN	2	⅝	1155
AWEE-K-4NN	2½	⅝	1550
AWEE-L-4NN	3	⅝	1895
AWEE-M-4NN	3½	⅞	2170
AWEE-P-4NN	4	⅞	2000
AWEE-R-4NN	5	⅞	2000
AWEE-S-4NN	6	1⅞	3750

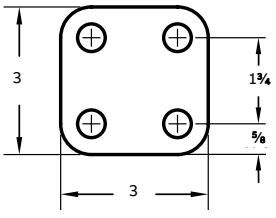
For schedule 80 pipe, add “H” to catalog number; e.g. AWEEH-E-4N.
Other sizes available; consult customer service.
All pads are finished on both sides.

Dimensions

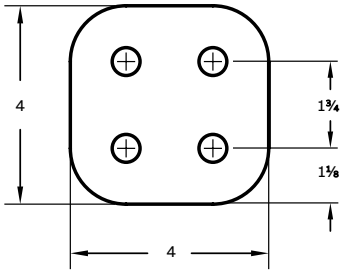




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Weld aluminum connectors

Type AWO – Weld terminal, pipe to flat

Type AWO – Weld terminal, pipe to flat

Pipe size sch. 40 or 80 (in.)	Pipe letter
1	F
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P
5	R
6	S

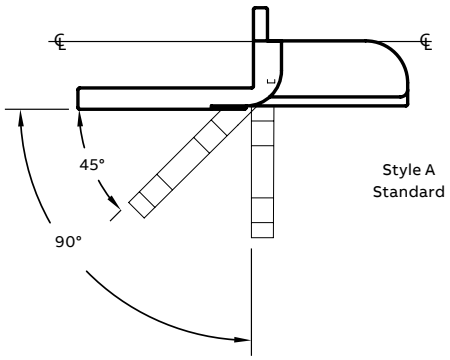
Other sizes available; consult customer service.
Parts are designed for use with either schedule 40 or 80 pipe.
All pads are finished on both sides.

Catalog numbers will be designated from the following information:

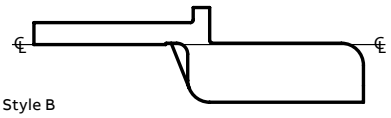
Style A
AWO - (pipe letter) - (pad size)
e.g.: AWO-R-2N
AWO - (pipe letter) - (pad size) (pad angle)
e.g.: AWO-R-4N90

Style B
AWO - (pipe letter) - (pad size) (contact surface)
e.g.: AWO-R-4NND

Dimensions

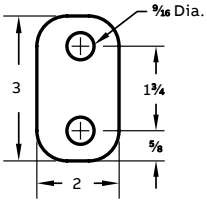


Style A
Standard

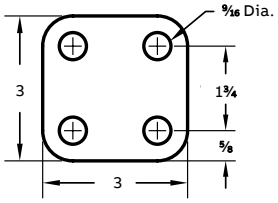


Style B
Suffix “D”

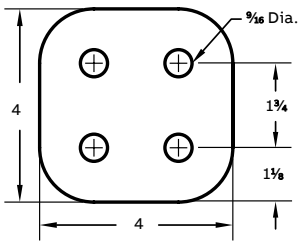
Contact surface on center line of bus



2-Hole NEMA flat
“2N”



3" 4-Hole NEMA flat
“4N”



4" 4-Hole NEMA flat
“4NN”

Weld aluminum connectors

Type AWEPC – Weld expansion terminal, pipe to center-formed flat

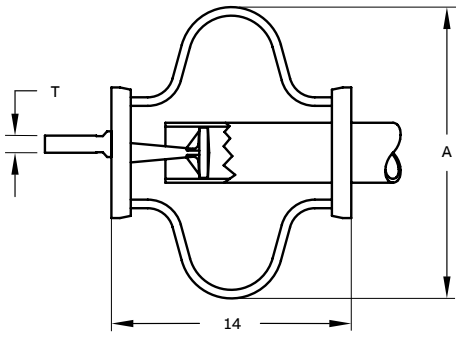
Type AWEPC – Weld expansion terminal, pipe to center-formed flat

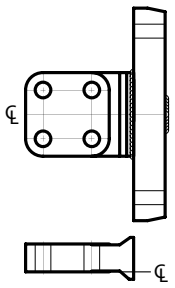
Cat. no.	SPS (in.)	A max. (in.)	T (in.)	Amps
2-Hole NEMA flat				
AWEPC-H-2N	1½	11⅛	¾	930
AWEPC-J-2N	2	12½		1155
AWEPC-K-2N	2½	12½		1550
AWEPC-L-2N	3	14		1895
AWEPC-M-2N	3½	14		2170
AWEPC-P-2N	4	17		2250
AWEPC-R-2N	5	19		2250
AWEPC-S-2N	6	19		2250
3" 4-Hole NEMA flat				
AWEPC-H-4N	1½	11⅛	1	930
AWEPC-J-4N	2	12½		1155
AWEPC-K-4N	2½	12½		1550
AWEPC-L-4N	3	14		1895
AWEPC-M-4N	3½	14		2170
AWEPC-P-4N	4	17		2460
AWEPC-R-4N	5	19		3000
AWEPC-S-4N	6	19		3000

Cat. no.	SPS (in.)	A max. (in.)	Amps
4" 4-Hole NEMA flat			
AWEPC-H-4NN	1½	11⅛	930
AWEPC-J-4NN	2	12½	1155
AWEPC-K-4NN	2½	12½	1550
AWEPC-L-4NN	3	14	1895
AWEPC-M-4NN	3½	14	2170
AWEPC-P-4NN	4	17	2460
AWEPC-R-4NN	5	19	3000
AWEPC-S-4NN	6	19	3000

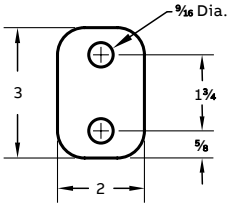
Other sizes available; consult customer service.
For schedule 80 pipe, add "H" to catalog number; e.g. AWEPCH-S-4N.
For 90° rotated pad, add suffix "-90" to catalog number: e.g. AWEPC-S-4N-90.
Use chart GA-735 for installation. See technical reference on page 174.
All pads are finished on both sides.

Dimensions

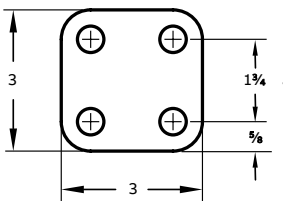




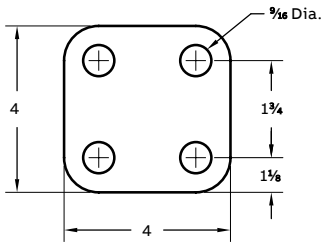
90° Pad



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Weld aluminum connectors

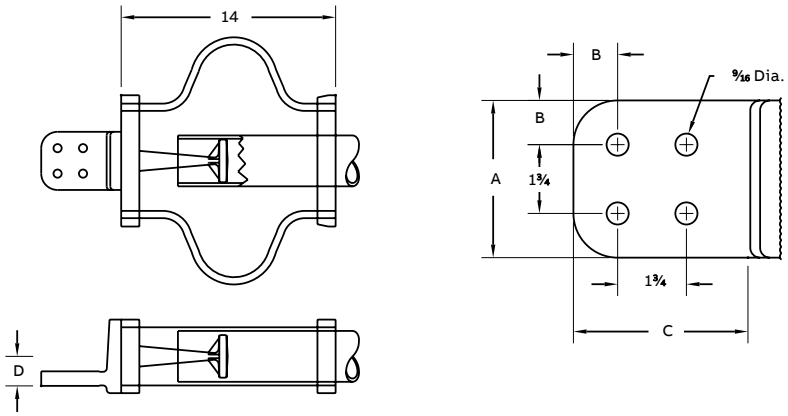
Type AWEPF – Weld expansion terminal, pipe to side-formed flat

Type AWEPF – Weld expansion terminal, pipe to side-formed flat

Cat. no.	SPS (in.)	A (in.)	B (in.)	C (in.)	D (in.)	Amps
3" 4-Hole NEMA flat						
AWEPF-H-4N	1½	3	⅝	3	1½	930
AWEPF-J-4N	2				1¾	1155
AWEPF-K-4N	2½				2	1550
AWEPF-L-4N	3				2	1895
AWEPF-M-4N	3½				2⅝	2170
AWEPF-P-4N	4				2⅞	2460
AWEPF-R-4N	5				3½	3000
AWEPF-S-4N	6				3⅞	3000
4" 4-Hole NEMA flat						
AWEPF-H-4NN	1½	4	1⅛	4	1½	930
AWEPF-J-4NN	2				1¾	1155
AWEPF-K-4NN	2½				2	1550
AWEPF-L-4NN	3				2½	1895
AWEPF-M-4NN	3½				2⅝	2170
AWEPF-P-4NN	4				2⅞	2460
AWEPF-R-4NN	5				3½	3000
AWEPF-S-4NN	6				3⅞	3000

Other sizes available; consult customer service.
For schedule 80 pipe, add "H" to catalog number; e.g. AWEPFH-S-4NN.
Use chart GA-735 for installation; see technical reference on page 174.
All pads are finished on both sides.

Dimensions



Weld aluminum connectors

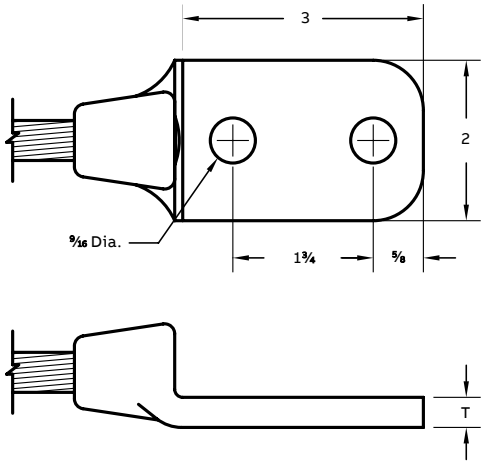
Type AWM – Weld terminal, cable to 2-hole NEMA flat

Type AWM – Weld terminal, cable to 2-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min. – max. (in.)	T (in.)
AWM-1/0-2N	1/0	1/0	0.368–0.393	7/16
AWM-2/0-2N	2/0	2/0	0.414–0.460	
AWM-3/0-2N	3/0	3/0	0.464–0.502	
AWM-4/0-2N	4/0	4/0	0.522–0.566	
AWM-26-2N	250	266.8 (18/1)	0.567–0.609	
AWM-30-2N	300	266.8 (26/7)	0.629–0.660	
AWM-35-2N	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWM-40-2N	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWM-47-2N	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWM-55-2N	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	9/16
AWM-60-2N	556.5–600	477 (26/7)–556.5 (24/7)	0.856–0.915	
AWM-70-2N	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-2N	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-2N	874.5	715.5	1.036–1.081	
AWM-95-2N	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-2N	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWM-119-2N	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

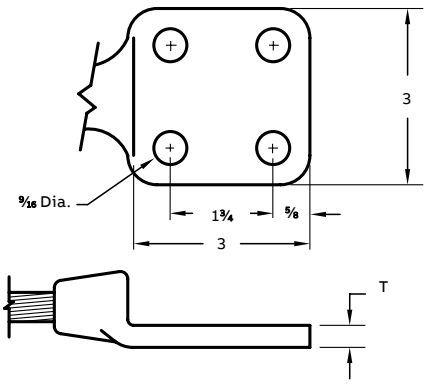
Type AWM – Weld terminal, cable to 3" 4-hole NEMA flat

Type AWM – Weld terminal, cable to 3" 4-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min. – max. (in.)	T (in.)
AWM-1/0-4N	1/0	1/0	0.368–0.393	9/16
AWM-2/0-4N	2/0	2/0	0.414–0.460	
AWM-3/0-4N	3/0	3/0	0.464–0.502	
AWM-4/0-4N	4/0	4/0	0.522–0.566	
AWM-26-4N	250	266.8 (18/1)	0.567–0.609	
AWM-30-4N	300	266.8 (26/7)	0.629–0.660	
AWM-35-4N	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWM-40-4N	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWM-47-4N	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWM-55-4N	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	1/2
AWM-60-4N	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWM-70-4N	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-4N	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-4N	874.5	715.5	1.036–1.081	
AWM-95-4N	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-4N	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWM-119-4N	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWM-130-4N	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	11/16
AWM-143-4N	1351.5–1431	1272–1351(45/7)	1.340–1.398	
AWM-150-4N	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWM-160-4N	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWM-180-4N	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWM-200-4N	1900–2000	1780	1.571–1.630	
AWM-225-4N	2250	2167 (72/7)	1.667–1.735	
AWM-230-4N	2300	2156 (84/19)–2312	1.751–1.802	
AWM-251-4N	2500–2515	–	1.820–1.880	
AWM-300-4N	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

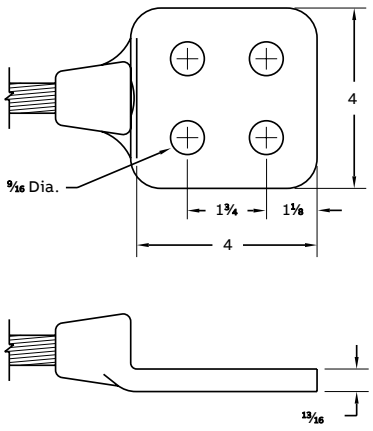
Type AWM – Weld terminal, cable to 4" 4-hole NEMA flat

Type AWM – Weld terminal, cable to 4" 4-hole NEMA flat

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min. – max. (in.)
AWM-55-4NN	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858
AWM-60-4NN	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915
AWM-70-4NN	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974
AWM-79-4NN	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030
AWM-87-4NN	874.5	715.5	1.036–1.081
AWM-95-4NN	900–954	795 (24/7) & (30/19)	1.092–1.146
AWM-103-4NN	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196
AWM-119-4NN	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259
AWM-130-4NN	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334
AWM-143-4NN	1351.5–1431	1272–1351 (45/7)	1.340–1.398
AWM-150-4NN	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412
AWM-160-4NN	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478
AWM-180-4NN	1700–1800	1510.5 (54/19)–1590	1.492–1.548
AWM-200-4NN	1900–2000	1780	1.571–1.630
AWM-225-4NN	2250	2167 (72/7)	1.667–1.735
AWM-230-4NN	2300	2156 (84/19)–2312	1.751–1.802
AWM-251-4NN	2500–2515	–	1.820–1.880
AWM-300-4NN	2750–3000	–	1.912–1.996

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

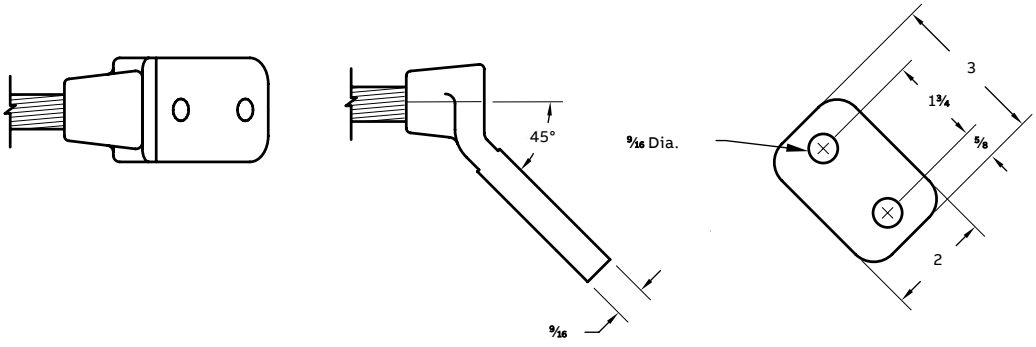
Type AWM-45 – 45° Weld terminal, cable to 2-hole NEMA flat

Type AWM-45 – 45° Weld terminal, cable to 2-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min. – max. (in.)
AWM-1/0-2N45	1/0	1/0	0.368–0.393
AWM-2/0-2N45	2/0	2/0	0.414–0.460
AWM-3/0-2N45	3/0	3/0	0.464–0.502
AWM-4/0-2N45	4/0	4/0	0.522–0.566
AWM-26-2N45	250	266.8 (18/1)	0.567–0.609
AWM-30-2N45	300	266.8 (26/7)	0.629–0.660
AWM-35-2N45	336.4–350	300–336.4 (18/1)	0.666–0.700
AWM-40-2N45	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743
AWM-47-2N45	450–477	397.5 (24/7) & (30/7)	0.770–0.806
AWM-55-2N45	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858
AWM-60-2N45	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915
AWM-70-2N45	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974
AWM-79-2N45	750–795	636 (24/7)–666.6 (30/7)	0.977–1.030
AWM-87-2N45	874.5	715.5	1.036–1.081
AWM-95-2N45	900–954	795 (24/7) & (30/19)	1.092–1.146
AWM-103-2N45	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196
AWM-119-2N45	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

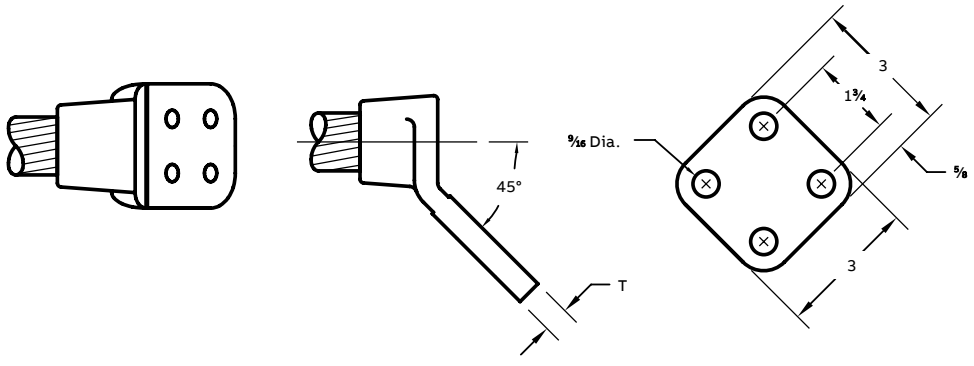
Type AWM-45 – 45° Weld terminal, cable to 3" 4-hole NEMA flat

Type AWM-45 – 45° Weld terminal, cable to 3" 4-hole NEMA flat

Cat.No.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min. – max. (in.)	T (in.)
AWM-1/0-4N45	1/0	1/0	0.368–0.393	3/8
AWM-2/0-4N45	2/0	2/0	0.414–0.460	
AWM-3/0-4N45	3/0	3/0	0.464–0.502	
AWM-4/0-4N45	4/0	4/0	0.522–0.566	
AWM-26-4N45	250	266.8 (18/1)	0.567–0.609	
AWM-30-4N45	300	266.8 (26/7)	0.629–0.660	
AWM-35-4N45	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWM-40-4N45	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWM-47-4N45	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWM-55-4N45	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWM-60-4N45	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWM-70-4N45	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-4N45	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-4N45	874.5	715.5	1.036–1.081	
AWM-95-4N45	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-4N45	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWM-119-4N45	1100–1192.5	1033.5–113 (45/7)	1.203–1.259	
AWM-130-4N45	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	11/16
AWM-143-4N45	1351.5–1431	1272–1351.5 (45/7)	1.340–1.398	
AWM-150-4N45	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWM-160-4N45	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWM-180-4N45	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWM-200-4N45	1900–2000	1780	1.571–1.630	
AWM-225-4N45	2250	2167 (72/7)	1.667–1.735	
AWM-230-4N45	2300	2156 (84/19)–2312	1.751–1.802	
AWM-251-4N45	2500–2515	–	1.820–1.880	
AWM-300-4N45	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

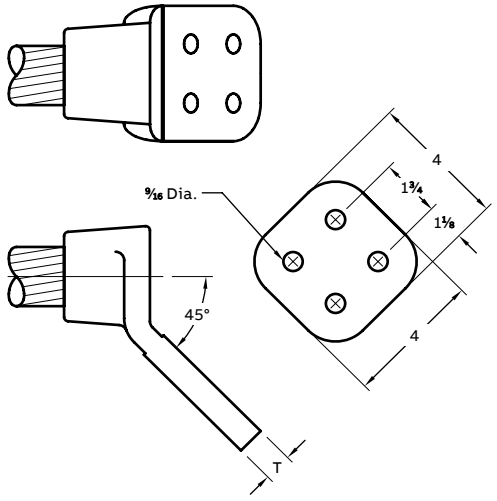
Type AWM-45 – 45° Weld terminal, cable to 4" 4-hole NEMA flat

Type AWM-45 – 45° Weld terminal, cable to 4" 4-hole NEMA flat

Cat. No.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min. – max. (in.)	T (in.)
AWM-55-4NN45	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWM-60-4NN45	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWM-70-4NN45	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-4NN45	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-4NN45	874.5	715.5	1.036–1.081	
AWM-95-4NN45	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-4NN45	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWM-119-4NN45	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWM-130-4NN45	1200–1300	1113 (45/7)–1192 (54/19)	1.259–1.334	
AWM-143-4NN45	1351.5–1431	1272–1351.5 (45/7)	1.340–1.398	
AWM-150-4NN45	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWM-160-4NN45	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWM-180-4NN45	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWM-200-4NN45	1900–2000	1780	1.571–1.630	13/16
AWM-225-4NN45	2250	2167 (72/7)	1.667–1.735	
AWM-230-4NN45	2300	2156 (84/19)–2312	1.751–1.802	
AWM-251-4NN45	2500–2515	–	1.820–1.880	
AWM-300-4NN45	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

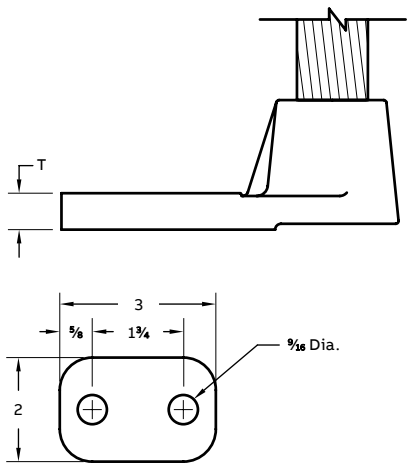
Type AWM-90 – 90° Weld terminal, cable to 2-hole NEMA flat

Type AWM-90 – 90° Weld terminal, cable to 2-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min. – max. (in.)	T (in.)
AWM-1/0-2N90	1/0	1/0	0.368–0.393	½
AWM-2/0-2N90	2/0	2/0	0.414–0.460	
AWM-3/0-2N90	3/0	3/0	0.464–0.502	
AWM-4/0-2N90	4/0	4/0	0.522–0.566	
AWM-26-2N90	250	266.8 (18/1)	0.567–0.609	
AWM-30-2N90	300	266.8 (26/7)	0.629–0.660	
AWM-35-2N90	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWM-40-2N90	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWM-47-2N90	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWM-55-2N90	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	⅝
AWM-60-2N90	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWM-70-2N90	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-2N90	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-2N90	874.5	715.5	1.036–1.081	
AWM-95-2N90	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-2N90	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWM-119-2N90	1100–1192.5	1033 .5–1113 (45/7)	1.203–1.259	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

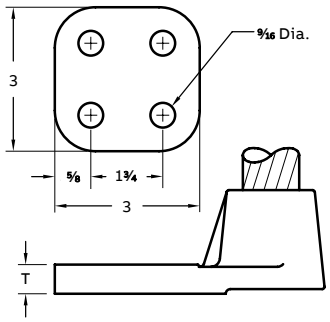
Type AWM-90 – 90° Weld terminal, cable to 3" 4-hole NEMA flat

Type AWM-90 – 90° Weld terminal, cable to 3" 4-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min. – max. (in.)	T (in.)
AWM-1/0-4N90	1/0	1/0	0.368–0.393	9/16
AWM-2/0-4N90	2/0	2/0	0.414–0.460	
AWM-3/0-4N90	3/0	3/0	0.464–0.502	
AWM-4/0-4N90	4/0	4/0	0.522–0.566	
AWM-26-4N90	250	266.8 (18/1)	0.567–0.609	
AWM-30-4N90	300	266.8 (26/7)	0.629–0.660	
AWM-35-4N90	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWM-40-4N90	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWM-47-4N90	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWM-55-4N90	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	1/2
AWM-60-4N90	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWM-70-4N90	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-4N90	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-4N90	874.5	715.5	1.036–1.081	
AWM-95-4N90	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-4N90	1000–1033.5	900 (54/7)–954 (54/7)	1.152 -1.196	
AWM-119-4N90	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWM-130-4N90	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	11/16
AWM-143-4N90	1351.5–1431	1272–1351 (45/7)	1.340–1.398	
AWM-150-4N90	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWM-160-4N90	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWM-180-4N90	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWM-200-4N90	1900–2000	1780	1.571–1.630	
AWM-225-4N90	2250	2167 (72/7)	1.667–1.735	
AWM-230-4N90	2300	2156 (84/19)–2312	1.751–1.802	
AWM-251-4N90	2300–2515	–	1.820–1.880	
AWM-300-4N90	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

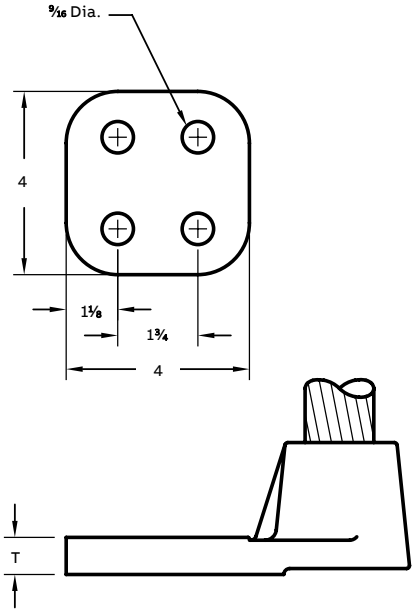
Type AWM-90 – 90° Weld terminal, cable to 4" 4-hole NEMA flat

Type AWM-90 – 90° Weld terminal, cable to 4" 4-hole NEMA flat

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWM-55-4NN90	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	13/16
AWM-60-4NN90	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWM-70-4NN90	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWM-79-4NN90	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWM-87-4NN90	874.5	715.5	1.036–1.081	
AWM-95-4NN90	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWM-103-4NN90	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWM-119-4NN90	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWM-130-4NN90	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	
AWM-143-4NN90	1351.5–1431	1272–1351 (45/7)	1.340–1.398	
AWM-150-4NN90	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWM-160-4NN90	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWM-180-4NN90	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWM-200-4NN90	1900–2000	1780	1.571–1.630	3/4
AWM-225-4NN90	2250	2167 (72/7)	1.667–1.735	
AWM-230-4NN90	2300	2156 (84/19)–2312	1.751–1.802	
AWM-251-4NN90	2500–2515	–	1.820–1.880	
AWM-300-4NN90	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

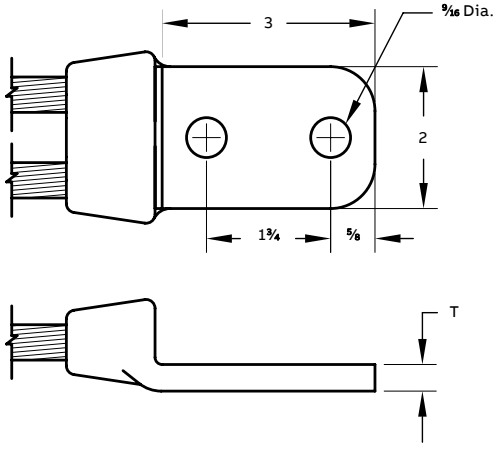
Type AWMM – Weld terminal, two cables to 2-hole NEMA flat

Type AWMM – Weld terminal, two cables to 2-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-1/0-2N	1/0	1/0	0.368–0.393	7/16
AWMM-2/0-2N	2/0	2/0	0.414–0.460	
AWMM-3/0-2N	3/0	3/0	0.464–0.502	
AWMM-4/0-2N	4/0	4/0	0.522–0.566	
AWMM-26-2N	250	266.8 (18/1)	0.567–0.609	
AWMM-30-2N	300	266.8 (26/7)	0.629–0.660	
AWMM-35-2N	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWMM-40-2N	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWMM-47-2N	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWMM-55-2N	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWMM-60-2N	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-2N	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	3/4
AWMM-79-2N	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	7/8
AWMM-87-2N	874.5	715.5	1.036–1.081	1
AWMM-95-2N	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-2N	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-2N	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

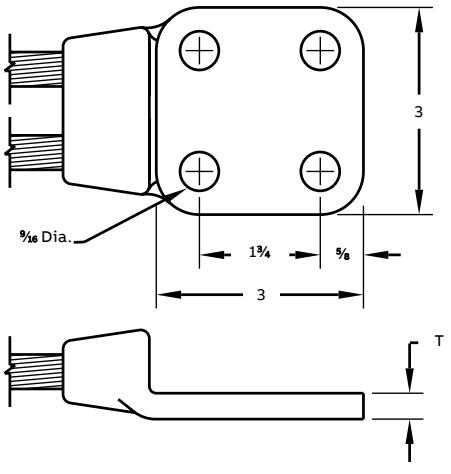
Type AWMM – Weld terminal, two cables to 3" 4-hole NEMA flat

Type AWMM – Weld terminal, two cables to 3" 4-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-1/0-4N	1/0	1/0	0.368 -0.393	½
AWMM-2/0-4N	2/0	2/0	0.414–0.460	
AWMM-3/0-4N	3/0	3/0	0.464–0.502	
AWMM-4/0-4N	4/0	4/0	0.522–0.566	
AWMM-26-4N	250	266.8 (18/1)	0.567–0.609	
AWMM-30-4N	300	266.8 (26/7)	0.629–0.660	
AWMM-35-4N	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWMM-40-4N	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWMM-47-4N	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWMM-55-4N	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	⅝
AWMM-60-4N	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-4N	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-4N	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWMM-87-4N	874.5	715.5	1.036–1.081	
AWMM-95-4N	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-4N	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-4N	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWMM-130-4N	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	⅞
AWMM-143-4N	1351.5–1431	1272–1351 (45/7)	1.340–1.398	
AWMM-150-4N	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWMM-160-4N	1510.5–1600	1351.5 (54/19) -1510.5 (45/7)	1.415–1.478	
AWMM-180-4N	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWMM-200-4N	1900–2000	1780	1.571–1.630	1
AWMM-225-4N	2250	2167 (72/7)	1.667–1.735	
AWMM-230-4N	2300	2156 (84/19)–2312	1.751–1.802	
AWMM-251-4N	2500–2515	–	1.820–1.880	
AWMM-300-4N	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

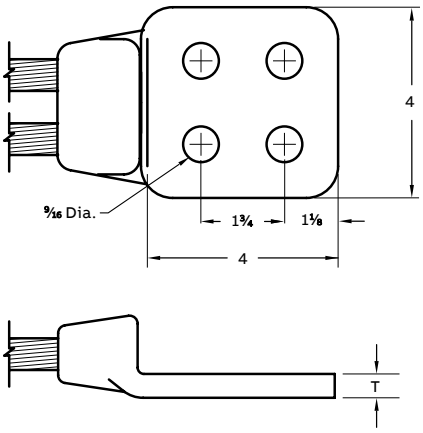
Type AWMM – Weld terminal, two cables to 4" 4-hole NEMA flat

Type AWMM – Weld terminal, two cables to 4" 4-hole NEMA flat

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-55-4NN	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWMM-60-4NN	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-4NN	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-4NN	750–795	605 (24/7)–666.6 (26/7)	0.977–1.030	
AWMM-87-4NN	874.5	715.5	1.03–1.081	
AWMM-95-4NN	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-4NN	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-4NN	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWMM-130-4NN	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	
AWMM-143-4NN	1351.5–1431	1272–1351 (45/7)	1.340–1.398	7/8
AWMM-150-4NN	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWMM-160-4NN	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWMM-180-4NN	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWMM-200-4NN	1900–2000	1780	1.571–1.630	1
AWMM-225-4NN	2250	2167 (72/7)	1.667–1.735	
AWMM-230-4NN	2300	2156 (84/19)–2312	1.751- 1.802	
AWMM-251-4NN	2300–2515	–	1.820–1.880	
AWMM-300-4NN	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

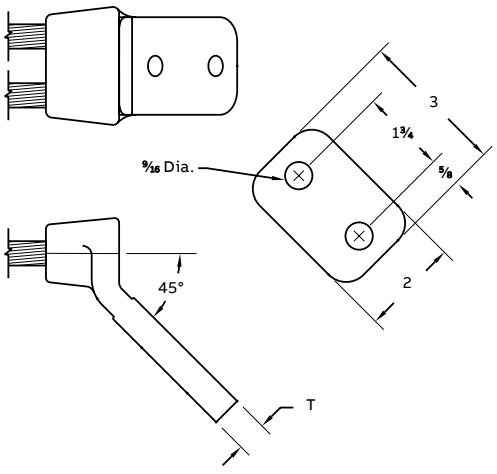
Type AWMM-45 – 45° Weld terminal, two cables to 2-hole NEMA flat

Type AWMM-45 – 45° Weld terminal, two cables to 2-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-1/0-2N45	1/0	1/0	0.368–0.393	3/8
AWMM-2/0-2N45	2/0	2/0	0.414–0.460	
AWMM-3/0-2N45	3/0	3/0	0.464–0.502	
AWMM-4/0-2N45	4/0	4/0	0.522–0.566	
AWMM-26-2N45	250	266.8 (18/1)	0.567–0.609	
AWMM-30-2N45	300	266.8 (26/7)	0.629–0.660	
AWMM-35-2N45	336.4–350	300–336.4 (18/1)	0.666–0.700	1/2
AWMM-40-2N45	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWMM-47-2N45	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWMM-55-2N45	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWMM-60-2N45	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-2N45	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	3/4
AWMM-79-2N45	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	7/8
AWMM-87-2N45	874.5	715.5	1.036–1.081	1
AWMM-95-2N45	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-2N45	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-2N45	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

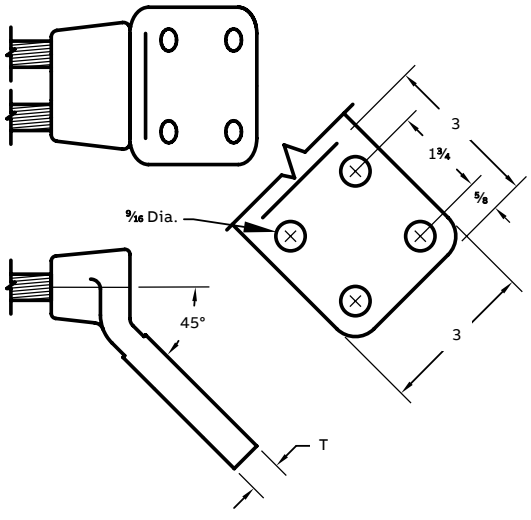
Type AWMM-45 – 45° Weld terminal, two cables to 3" 4-hole NEMA flat

Type AWMM-45 – 45° Weld terminal, two cables to 3" 4-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-1/0-4N45	1/0	1/0	0.368–0.393	½
AWMM-2/0-4N45	2/0	2/0	0.414–0.460	
AWMM-3/0-4N45	3/0	3/0	0.464–0.502	
AWMM-4/0-4N45	4/0	4/0	0.522–0.566	
AWMM-26-4N45	250	266.8 (18/1)	0.567–0.609	
AWMM-30-4N45	300	266.8 (26/7)	0.629–0.660	
AWMM-35-4N45	336.4–350	300–336.4 (18/1)	0.666–0.700	
AWMM-40-4N45	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWMM-47-4N45	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWMM-55-4N45	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	⅝
AWMM-60-4N45	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-4N45	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-4N45	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWMM-87-4N45	874.5	715.5	1.036–1.081	
AWMM-95-4N45	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-4N45	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-4N45	1100–1192.5	1033–1113 (45/7)	1.203–1.259	
AWMM-130-4N45	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	13/16
AWMM-143-4N45	1351.5–1431	1272–1351 (45/7)	1.340–1.398	
AWMM-150-4N45	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWMM-160-4N45	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWMM-180-4N45	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWMM-200-4N45	1900–2000	1780 (54/19)	1.571–1.630	
AWMM-225-4N45	2250	2032–2035	1.667–1.735	1
AWMM-230-4N45	2300	2156–2312	1.751–1.802	
AWMM-251-4N45	2300–1515	–	1.820–1.880	
AWMM-300-4N45	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

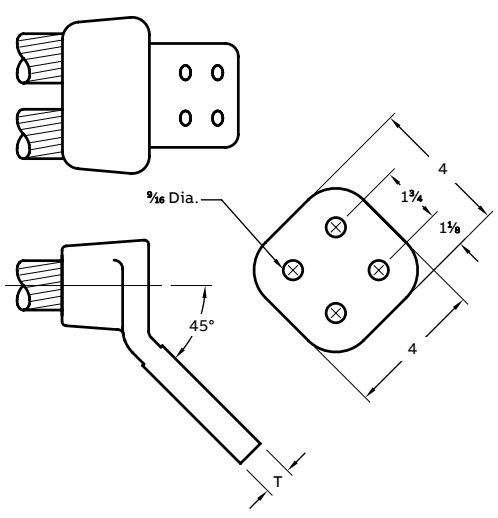
Type AWMM-45 – 45° Weld terminal, two cables to 4" 4-hole NEMA flat

Type AWMM-45 – 45° Weld terminal, two cables to 4" 4-hole NEMA flat

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-55-4NN45	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWMM-60-4NN45	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-4NN45	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-4NN45	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWMM-87-4NN45	874.5	715.5	1.036–1.081	
AWMM-95-4NN45	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-4NN45	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-4NN45	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWMM-130-4NN45	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	13/16
AWMM-143-4NN45	1351.5–1431	1272–1351.5 (45/7)	1.340–1.398	
AWMM-150-4NN45	1431–1500	1272 (54/19)–1351.5 (45/7)	1.415–1.478	
AWMM-160-4NN45	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWMM-180-4NN45	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWMM-200-4NN45	1900–2000	1780	1.571–1.630	
AWMM-225-4NN45	2250	2167 (72/7)	1.667–1.735	
AWMM-230-4NN45	2300	2156 (84/19)–2312	1.751–1.802	
AWMM-251-4NN45	2500–2515	–	1.820–1.880	
AWMM-300-4NN45	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

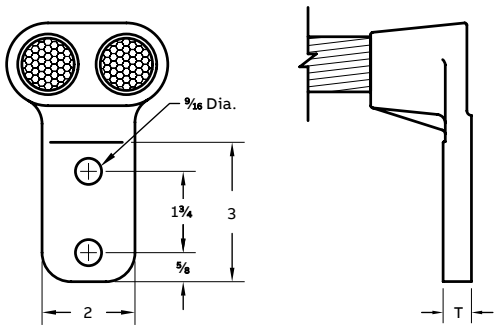
Type AWMM-90 – 90° Weld terminal, two cables to 2-hole NEMA flat

Type AWMM-90 – 90° Weld terminal, two cables to 2-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-1/0-2N90	1/0	1/0	0.368–0.393	7/16
AWMM-2/0-2N90	2/0	2/0	0.414–0.460	
AWMM-3/0-2N90	3/0	3/0	0.464–0.502	
AWMM-4/0-2N90	4/0	4/0	0.522–0.566	
AWMM-26-2N90	250	266.8 (18/1)	0.567–0.609	
AWMM-30-2N90	300	266.8 (26/7)	0.629–0.660	
AWMM-35-2N90	336.5–350	300–336.4 (18/1)	0.666–0.700	
AWMM-40-2N90	397–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWMM-47-2N90	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWMM-55-2N90	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	9/16
AWMM-60-2N90	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-2N90	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-2N90	750–795	636 (24/7) & (26/7)	0.977–1.030	
AWMM-87-2N90	874.5	715.5	1.036–1.081	
AWMM-95-2N90	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-2N90	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-2N90	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

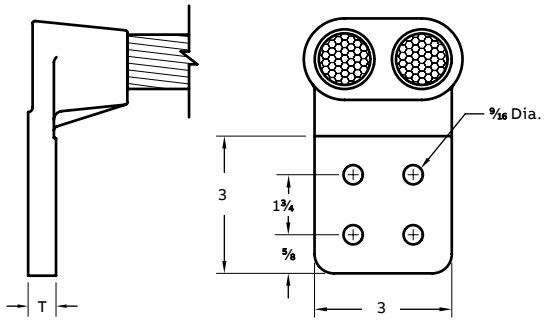
Type AWMM-90 – 90° Weld terminal, two cables to 3" 4-hole NEMA flat

Type AWMM-90 – 90° Weld terminal, two cables to 3" 4-hole NEMA flat

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-1/0-4N90	1/0	1/0	0.368–0.393	½
AWMM-2/0-4N90	2/0	2/0	0.414–0.460	
AWMM-3/0-4N90	3/0	3/0	0.464–0.502	
AWMM-4/0-4N90	4/0	4/0	0.522–0.566	
AWMM-26-4N90	250	266.8 (18/1)	0.567–0.609	
AWMM-30-4N90	300	266.8 (26/7)	0.629–0.660	
AWMM-35-4N90	336	300–336.4 (18/1)	0.666–0.700	
AWMM-40-4N90	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743	
AWMM-47-4N90	450–477	397.5 (24/7) & (30/7)	0.770–0.806	
AWMM-55-4N90	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	⅝
AWMM-60-4N90	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-4N90	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-4N90	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWMM-87-4N90	874.5	715.5	1.036–1.081	
AWMM-95-4N90	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-4N90	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-4N90	1100–1192.5	1033–1113 (45/7)	1.203–1.259	
AWMM-130-4N90	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334	11/16
AWMM-143-4N90	1351.5–1431	1272–1351 (45/7)	1.340–1.398	
AWMM-150-4N90	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWMM-160-4N90	1500.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWMM-180-4N90	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWMM-200-4N90	1900–2000	1780	1.571–1.630	¾
AWMM-225-4N90	2250	2167 (72/7)	1.667–1.735	
AWMM-230-4N90	2300	2156 (84/19)–2312	1.751–1.802	
AWMM-251-4N90	2500–2515	–	1.820–1.880	
AWMM-300-4N90	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



Weld aluminum connectors

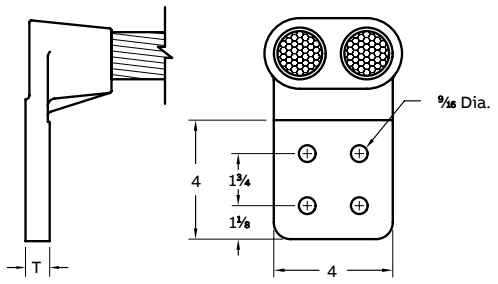
Type AWMM-90 and AWNP

Type AWMM-90 – 90° Weld terminal, two cables to 4" 4-hole NEMA flat

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min.–max. (in.)	T (in.)
AWMM-55-4NN90	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858	5/8
AWMM-60-4NN90	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915	
AWMM-70-4NN90	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974	
AWMM-79-4NN90	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030	
AWMM-87-4NN90	874.5	715.5	1.036–1.081	
AWMM-95-4NN90	900–954	795 (24/7) & (30/19)	1.092–1.146	
AWMM-103-4NN90	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196	
AWMM-119-4NN90	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259	
AWMM-130-4NN90	1200–1300	1113 (45/7) -1192.5 (54/19)	1.259–1.334	13/16
AWMM-143-4NN90	1351.5–1431	1272–1351 (45/7)	1.340–1.398	
AWMM-150-4NN90	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412	
AWMM-160-4NN90	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478	
AWMM-180-4NN90	1700–1800	1510.5 (54/19)–1590	1.492–1.548	
AWMM-200-4NN90	1900–2000	1780	1.571–1.630	3/4
AWMM-225-4NN90	2250	2167 (72/7)	1.667–1.735	
AWMM-230-4NN90	2300	2156 (84/19)–2312	1.751–1.802	
AWMM-251-4NN90	2500–2515	–	1.820–1.880	
AWMM-300-4NN90	2750–3000	–	1.912–1.996	

All pads are finished on both sides.

Dimensions



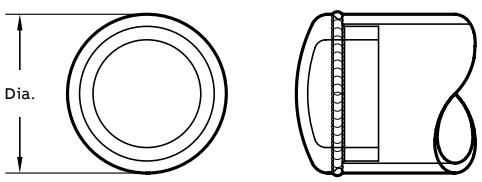
Type AWNP – Internal corona bell, weld fit

Cat. no.	SPS (in.)	Dia. (in.)
AWNP-E	3/4	1 1/16
AWNP-F	1	1 5/16
AWNP-G	1 1/4	1 11/16
AWNP-H	1 1/2	1 15/16
AWNP-J	2	2 3/8
AWNP-K	2 1/2	2 7/8

Cat. no.	SPS (in.)	Dia. (in.)
AWNP-L	3	3 1/2
AWNP-M	3 1/2	4
AWNP-P	4	4 1/2
AWNP-R	5	5 5/8
AWNP-S	6	6 5/8

For schedule 80 pipe, add “H” to catalog number; e.g. AWNPH-K.

Dimensions



Weld aluminum connectors

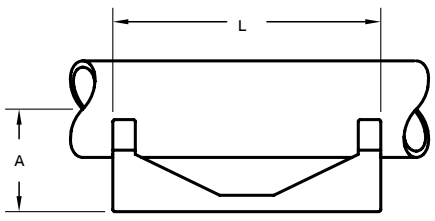
Type AWBP – Weld bus support, pipe to insulator

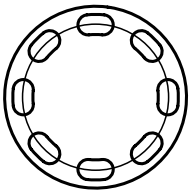
Type AWBP – Weld bus support, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	L (in.)
3" Bolt circle			
AWBP-E-3	¾	2	5¾
AWBP-F-3	1		7
AWBP-G-3	1¼	2¼	6½
AWBP-H-3	1½	2½	
AWBP-J-3	2	2¾	
AWBP-K-3	2½	3⅛	6
AWBP-L-3	3	3⅝	6½
AWBP-M-3	3½	4	6
AWBP-P-3	4	4½	
AWBP-R-3	5	5	6½
AWBP-S-3	6	5½	7
5" Bolt circle			
AWBP-E-5	¾	2	8
AWBP-F-5	1	2¼	
AWBP-G-5	1¼	2⅜	
AWBP-H-5	1½	2½	8½
AWBP-J-5	2	2¾	
AWBP-K-5	2½	3⅛	8¼
AWBP-L-5	3	3⅝	9
AWBP-M-5	3½	4	8
AWBP-P-5	4	4½	8½
AWBP-R-5	5	5	
AWBP-S-5	6	5½	

Galvanized hardware for mounting to insulator is supplied.

Dimensions





Slots: 3" BC 9⁄16 x ¾
5" BC 11⁄16 x ⅞

Weld aluminum connectors

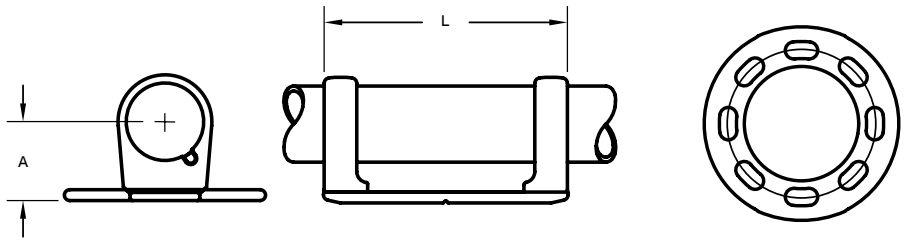
Type AWBS – Double ring bus support, weld or slide, pipe to insulator

Type AWBS – Double ring bus support, weld or slide, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	L (in.)
3" Bolt circle			
AWBS-E-3	¾	2	7
AWBS-F-3	1		
AWBS-G-3	1¼	2¼	
AWBS-H-3	1½	2½	
AWBS-J-3	2	2¾	
AWBS-K-3	2½	3⅛	
AWBS-L-3	3	3⅝	
AWBS-M-3	3½	4	
AWBS-P-3	4	4½	
AWBS-R-3	5	5	
AWBS-S-3	6	5½	
5" Bolt circle			
AWBS-E-5	¾	2¼	9¼
AWBS-F-5	1		
AWBS-G-5	1¼	2⅜	
AWBS-H-5	1½	2½	
AWBS-J-5	2	2¾	
AWBS-K-5	2½	3⅛	
AWBS-L-5	3	3⅝	
AWBS-M-5	3½	4	
AWBS-P-5	4	4½	
AWBS-R-5	5	5	
AWBS-S-5	6	5½	

Stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.

Dimensions



Slots: 3" BC 9/16 x ¾
5" BC 11/16 x ⅞

Weld aluminum connectors

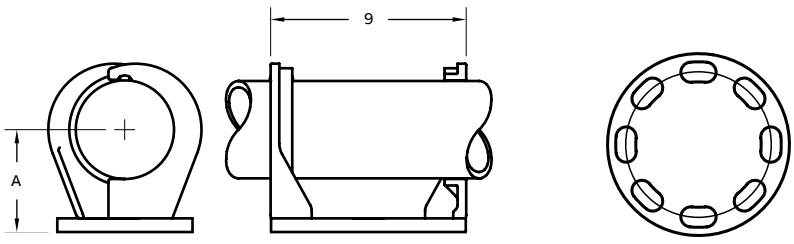
Type AWBQ – Hook-on bus support, weld or slide, pipe to insulator

Type AWBQ – Hook-on bus support, weld or slide, pipe to insulator

Cat. no.	SPS (in.)	A (in.)
3" Bolt circle		
AWBQ-E-3	¾	2
AWBQ-F-3	1	
AWBQ-G-3	1¼	2¼
AWBQ-H-3	1½	2½
AWBQ-J-3	2	2¾
AWBQ-K-3	2½	3⅛
AWBQ-L-3	3	3⅝
AWBQ-M-3	3½	4
AWBQ-P-3	4	4½
AWBQ-R-3	5	5
AWBQ-S-3	6	5½
5" Bolt circle		
AWBQ-E-5	¾	2¼
AWBQ-F-5	1	
AWBQ-G-5	1¼	2⅜
AWBQ-H-5	1½	2½
AWBQ-J-5	2	2¾
AWBQ-K-5	2½	3⅛
AWBQ-L-5	3	3⅝
AWBQ-M-5	3½	4
AWBQ-P-5	4	4½
AWBQ-R-5	5	5
AWBQ-S-5	6	5½

Stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.

Dimensions



Slots: 3" BC 9⁄16 x ¾
5" BC 11⁄16 x ⅞

Weld aluminum connectors

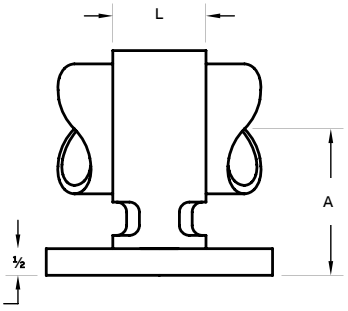
Type WAXB – Weld or slide bus support, pipe to insulator

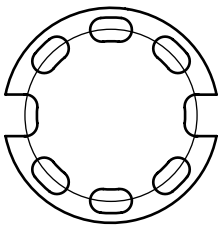
Type WAXB – Weld or slide bus support, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	L (in.)
3" Bolt circle			
WAXB-E-3	¾	2	1
WAXB-F-3	1		
WAXB-G-3	1¼	2¼	1¼
WAXB-H-3	1½	2½	
WAXB-J-3	2	2¾	1¾
WAXB-K-3	2½	3⅛	
WAXB-L-3	3	3⅝	
WAXB-M-3	3½	4	2
WAXB-P-3	4	4½	
WAXB-R-3	5	5	
WAXB-S-3	6	5½	
5" Bolt circle			
WAXB-E-5	¾	2¼	1
WAXB-F-5	1		
WAXB-G-5	1¼	2⅜	1¼
WAXB-H-5	1½	2½	
WAXB-J-5	2	2	1¾
WAXB-K-5	2½	3⅛	
WAXB-L-5	3	3⅝	
WAXB-M-5	3½	4	2
WAXB-P-5	4	4½	
WAXB-R-5	5	5	
WAXB-S-5	6	5½	

Stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.

Dimensions





Slots: 3" BC 9⁄16 x ¾
5" BC 11⁄16 x ⅞

Weld aluminum connectors

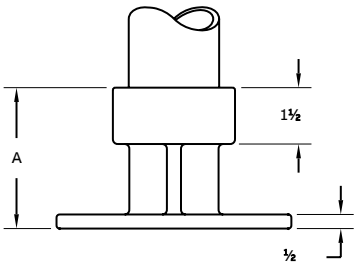
Type AWPX – Weld vertical bus support, pipe to insulator, vertical take-off

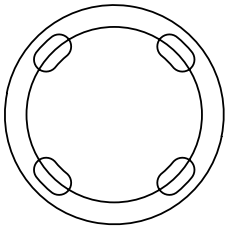
Type AWPX – Weld vertical bus support, pipe to insulator, vertical take-off

Cat. no.	SPS (in.)	A (in.)
3" Bolt circle		
AWPX-E-3	¾	3¼
AWPX-F-3	1	
AWPX-G-3	1¼	
AWPX-H-3	1½	
AWPX-J-3	2	3 11/16
AWPX-K-3	2½	3¾
AWPX-L-3	3	3 13/16
AWPX-M-3	3½	3 15/16
AWPX-P-3	4	4
AWPX-R-3	5	4⅛
AWPX-S-3	6	4¼
5" Bolt circle		
AWPX-E-5	¾	3¼
AWPX-F-5	1	
AWPX-G-5	1¼	
AWPX-H-5	1½	
AWPX-J-5	2	3 7/16
AWPX-K-5	2½	3½
AWPX-L-5	3	3 9/16
AWPX-M-5	3½	3 11/16
AWPX-P-5	4	3¾
AWPX-R-5	5	3 13/16
AWPX-S-5	6	4

Galvanized hardware for mounting to insulator is supplied.

Dimensions





Slots: 3" BC 9/16 x ¾
5" BC 11/16 x ⅞

Weld aluminum connectors

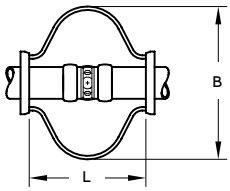
Type AWECC and AWGS

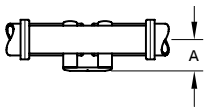
Type AWECC – Weld expansion bus support, pipe to insulator

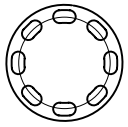
Cat. no.	SPS (in.)	A (in.)	L (in.)	B (in.)	Amps
3" Bolt circle					
AWECC-H-3	1½	2½	12	14	930
AWECC-J-3	2	2¾		16	1155
AWECC-K-3	2½	3⅛			1550
AWECC-L-3	3	3⅝		17	1895
AWECC-M-3	3½	4			2170
AWECC-P-3	4	4½		22	2000
AWECC-R-3	5	5		24	
AWECC-S-3	6	5½			
5" Bolt circle					
AWECC-H-5	1½	2½	16¼	18	930
AWECC-J-5	2	2¾		19	1155
AWECC-K-5	2½	3⅛			1550
AWECC-L-5	3	3⅝		20	1895
AWECC-M-5	3½	4		21	2170
AWECC-P-5	4	4½		22	2000
AWECC-R-5	5	5		24	
AWECC-S-5	6	5½			

End caps, stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied. Other sizes available; consult customer service. Use chart GA-796 for installation; see technical reference page 175. For schedule 80 pipe, add “H” to catalog number; e.g. AWECCH-H-5.

Dimensions







Slots: 3" BC 9⁄16 x ¾
5" BC 11⁄16 x ⅞

Type AWGS – Ground studs

Cat. no.	SPS (in.)	Type (in.)	Figure (in.)
AWGS-E	¾	–	1
AWGS-FK	1–2½		
AWGS-LS	3–6		
AWGS-FLAT	–	UABC/IWCB	2
AWGS-4N	–	4-Hole NEMA 13⁄16 thick	3

All pads are finished on both sides. For other configurations, consult customer service.

Dimensions

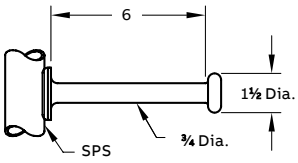


Figure 1

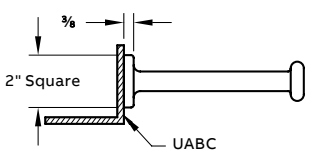


Figure 2

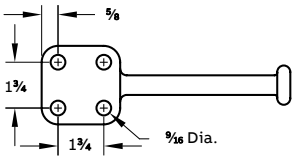


Figure 3

Bolted aluminum connectors

Quick reference – Bolted tee connectors

01 Type ABT
See page 51

02 Type ABT-15
See page 52

03 Type ABT-15-15
See page 53

04 Type ABNT
See page 54

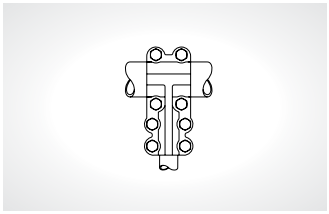
05 Type ABTT
See page 55

06 Type AB2T
See page 55

07 Type A6MT
See pages 56–57

08 Type A6MT
See page 58

09 Type A7MT
See page 59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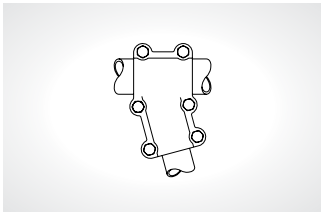
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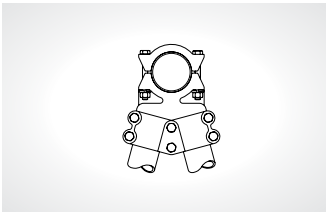
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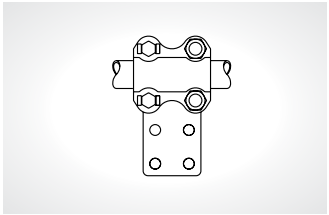
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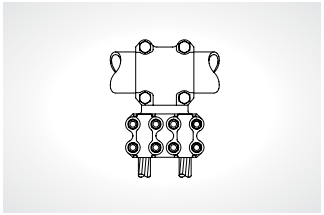
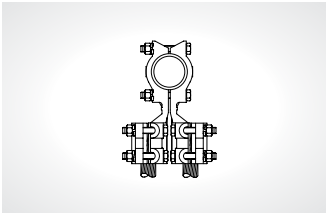

05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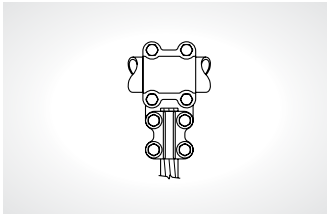
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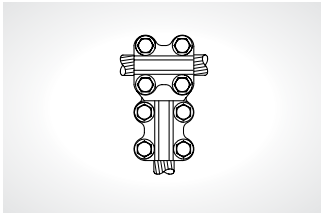
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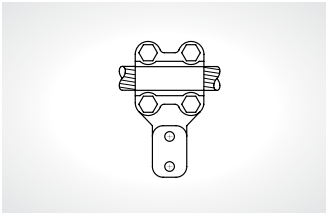

09

Quick reference – Bolted couplers

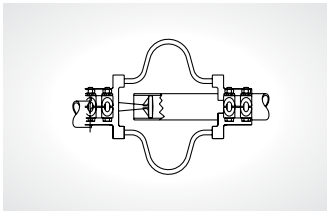
01 Type AFG
See page 60

02 Type ABC
See page 61

03 Type ABCE-45 & 90
See page 62

04 Type ABR
See page 63

05 Type ABR
See page 66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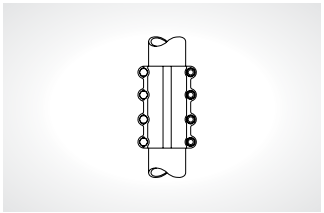
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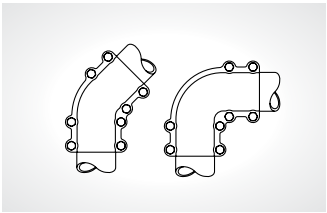
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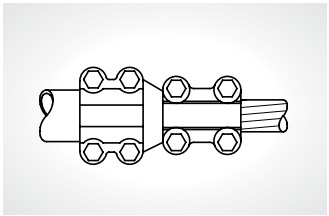
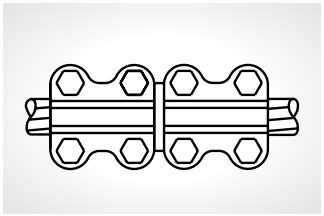

04


05

Bolted aluminum connectors

Quick reference – Bolted terminals

01 Type ABN
See page 67

02 Type ABN-45
See page 68

03 Type ABN-90
See page 69

04 Type ABNC
See page 70

05 Type ABEPC
See page 71

06 Type A7M
See page 72

07 Type A7M-45
See page 73

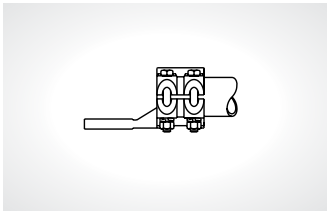
08 Type A7M-90
See page 74

09 Type A7MM1
See page 75

10 Type A7MM
See page 76

11 Type A7MM1-90
See pages 77

12 Type A7MM-90
See page 78



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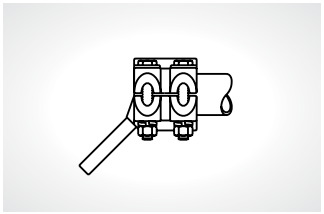

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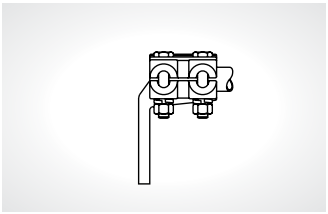

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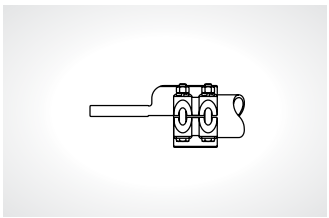

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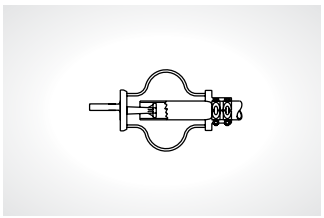

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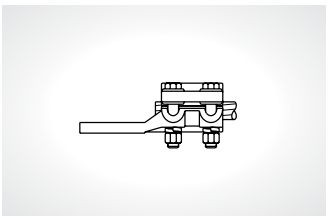

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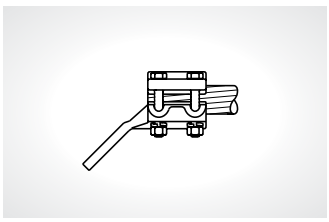

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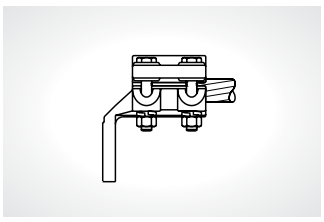

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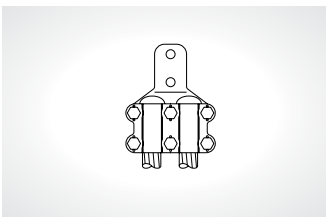

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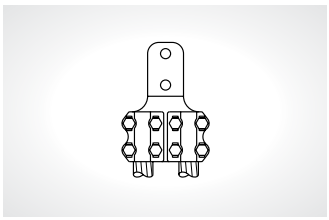

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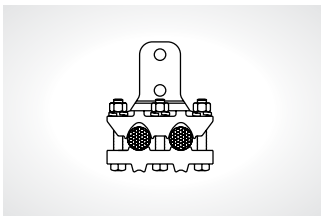

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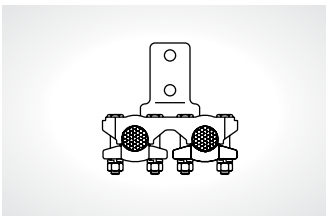


12

Bolted aluminum connectors

Quick reference – Bolted stud connectors

01 Type AVIE
See page 79

02 Type AVIE-90
See page 80

03 Type AVIC
See page 81

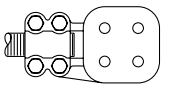
04 Type AVIC-90
See page 82

05 Type AVID
See page 83

06 Type AVID-90
See page 84

07 Type ASPKG
See page 89

01



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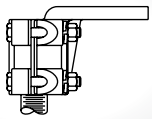

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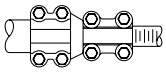

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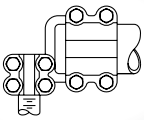

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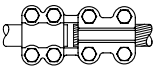

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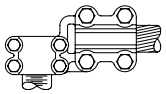

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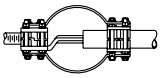


Quick reference – Bolted supports

01 Type ATB
See page 93

02 Type ASBC
See page 94

03 Type ASBCC
See page 95

04 Type ASBCE
See page 96

05 Type AVBS
See page 97

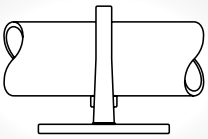
06 Type APPB
See page 97

07 Type ASBD
See page 98

08 Type ASBP
See page 98

09 Type SPAE & SPAC
See page 99

01



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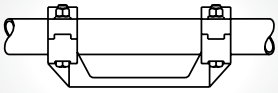

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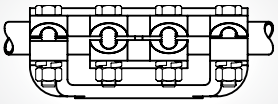

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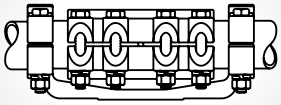

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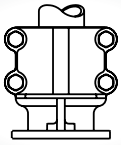

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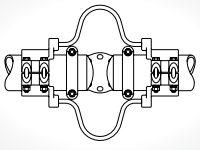

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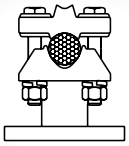

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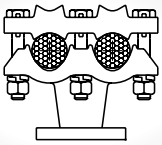

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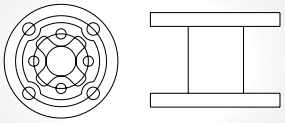


Bolted aluminum connectors

Quick reference – Bolted miscellaneous

01 Type AKFI
See page 50

02 Type ABRU
See page 64

03 Type ACS2
See page 65

04 Type ABGS
See page 66

05 Type WVLS12
See page 85

06 Type WVLS20
See page 86

07 Type AVLS12
See page 87

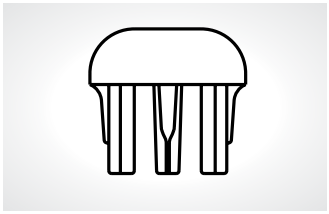
08 Type AVLS20
See page 88

09 Type AVLS
See page 90

10 Type 7020
See page 91

11 Type 7021
See page 92

12 Type APP
See page 99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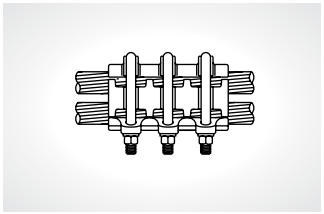
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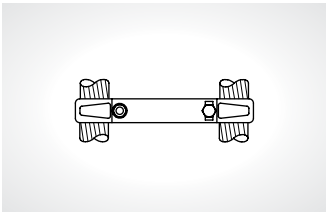
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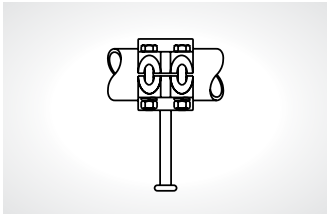
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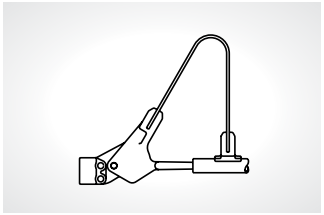
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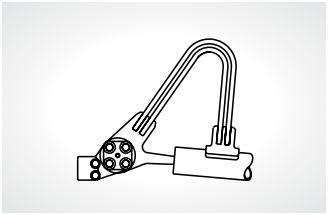
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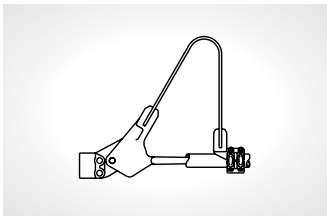
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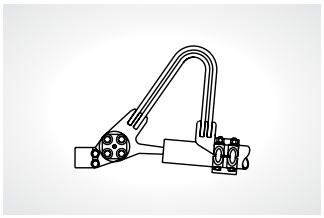
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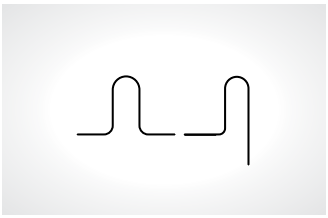
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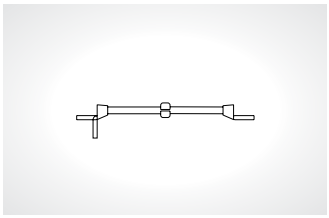
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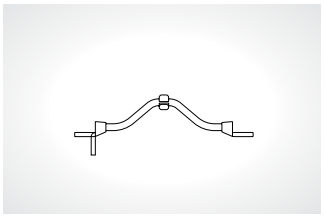
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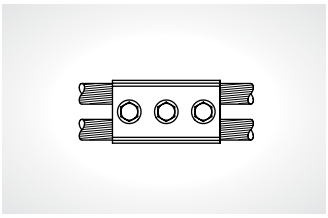
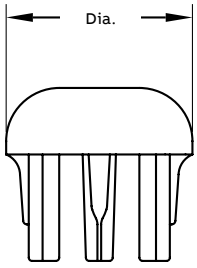
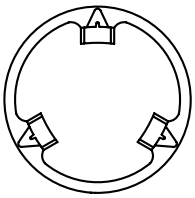

12

Type AKFI – Corona bell, drive fit





Cat. no.	SPS (in.)	Dia. (in.)
AKFI-E	¾	1.050
AKFI-F	1	1.315
AKFI-G	1¼	1.660
AKFI-H	1½	1.900
AKFI-J	2	2.375
AKFI-K	2½	2.875
AKFI-L	3	3.500
AKFI-M	3½	4.000
AKFI-P	4	4.500
AKFI-R	5	5.563
AKFI-S	6	6.625

For schedule 80 pipe, add “H” to catalog number; e.g. AKFIH-J.

Bolted aluminum connectors

Type ABT – Bolted tee connector, pipe run to pipe tap

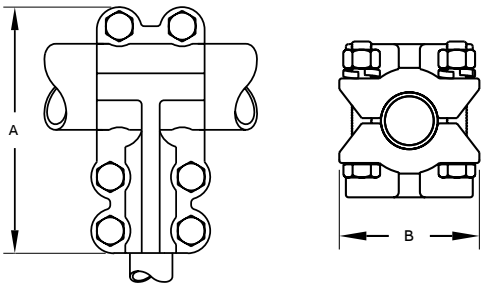
Type ABT – Bolted tee connector, pipe run to pipe tap

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
ABT-E-E	¾	¾	6¼	3
ABT-F-E	1	¾	5 5/16	3
ABT-F-F		1		3½
ABT-G-E	1¼	¾	6 11/16	3
ABT-G-F		1	6 13/16	3½
ABT-G-G		1¼	6¾	4⅛
ABT-H-E	1½	¾	7 11/16	3
ABT-H-F		1	6 13/16	3½
ABT-H-G		1¼	7 3/16	3⅞
ABT-H-H		1½	7¼	4⅛
ABT-J-E	2	¾	7 1/16	3
ABT-J-F		1		3½
ABT-J-G		1¼	8	3⅞
ABT-J-H		1½	7 13/16	4⅛
ABT-J-J		2	8 1/16	5⅛
ABT-K-E	2½	¾	8 5/16	3
ABT-K-F		1	8 1/32	3½
ABT-K-G		1¼	8⅛	3⅞
ABT-K-H		1½	8 5/16	4⅛
ABT-K-J		2	8 9/16	4⅝
ABT-K-K		2½	8 5/16	5⅛
ABT-L-E	3	¾	9¼	3
ABT-L-F		1	8¾	3¾
ABT-L-G		1¼	9 1/32	4
ABT-L-H		1½	8⅞	3¾
ABT-L-J		2	9¼	4½
ABT-L-K		2½		5
ABT-L-L		3	10⅛	5½
ABT-M-E	3½	¾	9¾	3
ABT-M-F		1	9¼	3 7/16
ABT-M-G		1¼	9½	3⅞
ABT-M-H		1½	9¾	4⅛

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
ABT-M-J	3½	2	9⅞	5¼
ABT-M-K		2½		5⅛
ABT-M-L		3	10½	6⅛
ABT-M-M		3½	9¾	6 7/16
ABT-P-E	4	¾	10¼	3
ABT-P-F		1		3½
ABT-P-G		1¼		4¼
ABT-P-H		1½		4⅛
ABT-P-J		2	10⅛	4½
ABT-P-K		2½	10¼	5⅛
ABT-P-L		3		5½
ABT-P-M		3½	10¾	6
ABT-P-P		4	11	6½
ABT-R-E	5	¾	11½	3
ABT-R-F		1		3½
ABT-R-G		1¼		3⅞
ABT-R-H		1½		4⅛
ABT-R-J		2	11⅛	4½
ABT-R-K		2½	11	5
ABT-R-L		3	11¼	5½
ABT-R-M		3½	12¾	6⅝
ABT-R-P		4	13	7¼
ABT-R-R		5	13½	7½
ABT-S-E	6	¾	12½	3
ABT-S-F		1		3½
ABT-S-H		1¼		3⅞
ABT-S-H		1½		4⅛
ABT-S-J		2	12¼	4½
ABT-S-K		2½	12⅛	5
ABT-S-L		3	13¼	6⅛
ABT-S-M		3½	13⅞	6
ABT-S-P		4	14⅝	7½
ABT-S-R		5	16½	8½
ABT-S-S		6	16¾	12

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

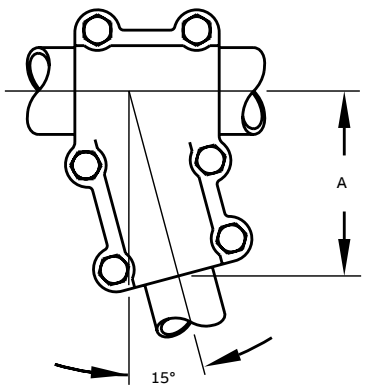
Type ABT-15 – Bolted tee connector, pipe run to pipe tap at 15°

Type ABT-15 – Bolted tee connector, pipe run to pipe tap at 15°

Cat. No.	Run SPS (in.)	Tap SPS (in.)	A (in.)
ABT-E-E-15	¾	¾	5
ABT-F-E-15	1	¾	5¼
ABT-F-F-15		1	
ABT-G-E-15	1¼	¾	5½
ABT-G-F-15		1	
ABT-G-G-15		1¼	
ABT-H-E-15	1½	¾	5¾
ABT-H-F-15		1	
ABT-H-G-15		1¼	
ABT-H-H-15		1½	
ABT-J-E-15	2	¾	6
ABT-J-F-15		1	
ABT-J-G-15		1¼	
ABT-J-H-15		1½	
ABT-J-J-15		2	
ABT-K-E-15	2½	¾	6¼
ABT-K-F-15		1	
ABT-K-G-15		1¼	
ABT-K-H-15		1½	
ABT-K-J-15		2	
ABT-K-K-15		2½	
ABT-L-E-15	3	¾	6½
ABT-L-F-15		1	
ABT-L-G-15		1¼	
ABT-L-H-15		1½	
ABT-L-J-15		2	
ABT-L-K-15		2½	7¼
ABT-L-L-15		3	
ABT-M-F-15	3½	1	7½
ABT-M-G-15		1¼	
ABT-M-H-15		1½	
ABT-M-J-15		2	8
ABT-M-K-15		2½	
ABT-M-L-15		3	
ABT-M-M-15		3½	
ABT-P-J -15	4	2	8½
ABT-P-K-15		2½	
ABT-P-L-15		3	
ABT-P-M-15		3½	9
ABT-P-P-15		4	
ABT-R-J-15	5	2	10
ABT-R-K-15		2½	
ABT-R-L-15		3	
ABT-R-M-15		3½	
ABT-R-P-15		4	10½
ABT-R-R-15		5	
ABT-S-J-15	6	2	11½
ABT-S-K-15		2½	
ABT-S-L-15		3	
ABT-S-M-15		3½	
ABT-S-P-15		4	12
ABT-S-R-15		5	
ABT-S-S-15		6	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Other sizes available; consult customer service.

Dimensions



Bolted aluminum connectors

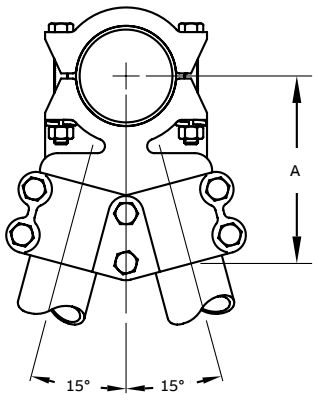
Type ABT-15-15 – Bolted vee, pipe run to two pipe taps, each at 15°

Type ABT-15-15 – Bolted vee, pipe run to two pipe taps, each at 15°

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)
ABT-E-E2-15	¾	¾	5
ABT-F-E2-15	1	¾	5
ABT-F-F-215		1	5¼
ABT-G-E2-15	1¼	¾	5½
ABT-G-F2-15		1	
ABT-G-G2-15		1¼	
ABT-H-E2-15	1½	¾	5¾
ABT-H-F2-15		1	
ABT-H-G2-15		1¼	
ABT-H-H2-15		1½	
ABT-J-E2-15	2	¾	6
ABT-J-F2-15		1	
ABT-J-G2-15		1¼	
ABT-J-H2-15		1½	
ABT-J-J2-15		2	
ABT-K-E2-15	2½	¾	6¼
ABT-K-F2-15		1	
ABT-K-G2-15		1¼	
ABT-K-H2-15		1½	
ABT-K-J2-15		2	
ABT-K-K2-15		2½	
ABT-L-E2-15	3	¾	6½
ABT-L-F2-15		1	
ABT-L-G2-15		1¼	
ABT-L-H2-15		1½	
ABT-L-J2-15		2	
ABT-L-K2-15		2½	7¼
ABT-L-L2-15		3	
ABT-M-F2-15	3½	1	7½
ABT-M-G2-15		1¼	
ABT-M-H2-15		1½	
ABT-M-J2-15		2	8
ABT-M-K2-15		2½	
ABT-M-L2-15		3	
ABT-M-M2-15		3½	
ABT-P-J2-15	4	2	8½
ABT-P-K2-15		2½	
ABT-P-L2-15		3	
ABT-P-M2-15		3½	9
ABT-P-P2-15		4	
ABT-R-J2-15	5	2	10
ABT-R-K2-15		2½	
ABT-R-L2-15		3	
ABT-R-M2-15		3½	
ABT-R-P2-15		4	10½
ABT-R-R2-15		5	
ABT-S-J2-15	6	2	11½
ABT-S-K2-15		2½	
ABT-S-L2-15		3	
ABT-S-M2-15		3½	
ABT-S-P2-15		4	12
ABT-S-R2-15		5	
ABT-S-S2-15		6	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Other sizes available; consult customer service.

Dimensions



Bolted aluminum connectors

Type ABNT – Bolted tee, pipe to flat

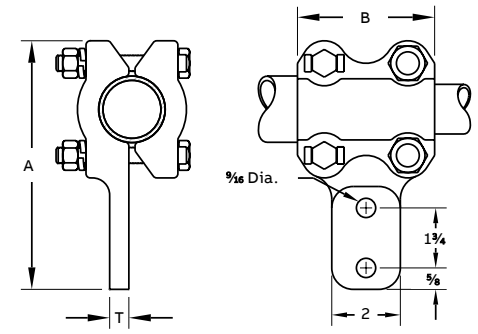
Type ABNT – Bolted tee, pipe to flat

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
ABNT-E-2N	¾	6 13/16	3	½	600
ABNT-F-2N	1	6¾	3⅜		
ABNT-G-2N	1¼	6 15/16	3	⅝	
ABNT-H-2N	1½	7 3/16	2 15/16		
ABNT-J-2N	2	7 11/16			
ABNT-K-2N	2½	8½	3		
ABNT-L-2N	3	9½	3¾	¾	
ABNT-M-2N	3½	10¼		⅝	
ABNT-P-2N	4	10½	4	¾	
ABNT-R-2N	5	11⅜	4¼		
ABNT-S-2N	6	12¾			
3" 4-Hole NEMA flat					
ABNT-E-4N	¾	6⅜	3	9/16	600
ABNT-F-4N	1	6¾		½	650
ABNT-G-4N	1¼	7⅛		⅝	810
ABNT-H-4N	1½	7 3/16	2 15/16	9/16	930

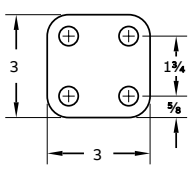
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
3" 4-Hole NEMA flat					
ABNT-J-4N	2	7 11/16	2 15/16	⅝	1155
ABNT-K-4N	2½	8	3		1550
ABNT-L-4N	3	10⅛	3¾	11/16	1895
ABNT-M-4N	3½	10¼		⅝	2170
ABNT-P-4N	4	10 15/16	4	¾	2000
ABNT-R-4N	5	11			
ABNT-S-4N	6	12¾			
4" 4-Hole NEMA flat					
ABNT-J-4NN	2	9	4 3/16	½	1155
ABNT-K-4NN	2½	9½	3	⅝	1550
ABNT-L-4NN	3	10½	5	13/16	1895
ABNT-M-4NN	3½	10¾	3¾	¾	2170
ABNT-P-4NN	4	11½	4		2000
ABNT-R-4NN	5	13		1	
ABNT-S-4NN	6	14	4½	¾	3000

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Other sizes available; consult customer service.
All pads are finished on both sides.

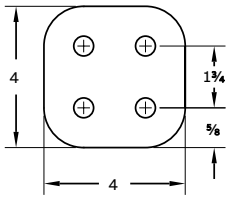
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

Type ABTT – Bolted tee, pipe to two cables

Pipe size sch. 40 or 80 (in.)	Letter
1	F
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P
5	R
6	S

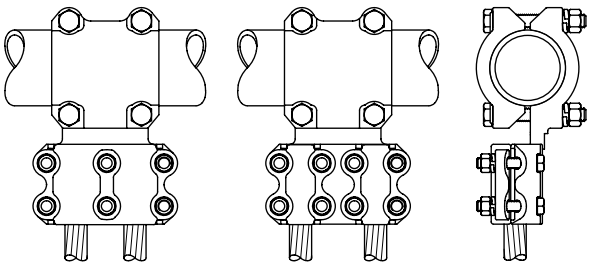
For other configurations, consult customer service.

Catalog numbers will be designated from the following information:
Style 1: ABTT1 - (pipe) - (* wire)

Style 2: ABTT - (pipe) - (* wire)
e.g.: ABTT - R - *

* Wire size type (AAC, ACSR) stranding must be supplied in order to designate the proper size.

Dimensions



Style 1
(1) Cap

Style 2
(2) Caps

Type AB2T – Bolted tee, pipe to two cables

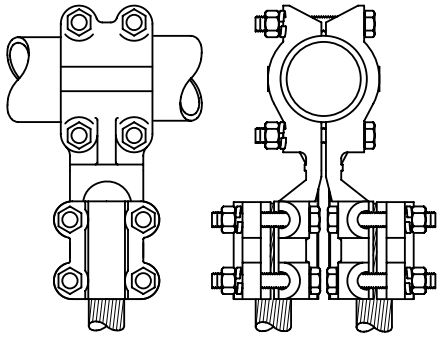
Pipe size sch. 40 or 80 (in.)	Letter
1	F
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P
5	R
6	S

For other configurations, consult customer service.

	Cable size	
Wire code	AAC (AWG or kcmil)	ACSR (AWG or kcmil)
40	1/0–400	1/0–336
100	250–1000	300–795
150	556–1500	636–1272
250	1100–2500	1113–2300

Catalog numbers will be designated from the following information:
AB2T - (pipe letter) - (wire code)
e.g.: AB2T - R - 40

Dimensions



Bolted aluminum connectors

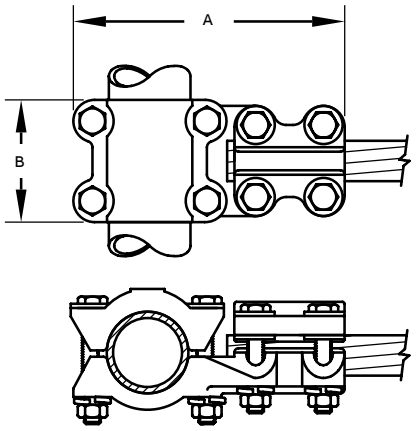
Type A6MT – Bolted tee, pipe to cable

Type A6MT – Bolted tee, pipe to cable

Cat. no.	Run SPS (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
A6MT-E-25	¾	#4–250	#4–4/0	0.232–0.575	6 3/16	3
A6MT-E-40		1/0–400	1/0–336	0.368–0.741		
A6MT-E-100		250–1000	300–795	0.567–1.150	6 7/16	
A6MT-F-25	1	#4–250	#4–4/0	0.232–0.575	6¾	
A6MT-F-40		1/0–400	1/0–336	0.368–0.741		
A6MT-F-100		250–1000	300–795	0.567–1.150	6 15/16	
A6MT-G-25	1¼	#4–250	#4–4/0	0.232–0.575	7⅛	2 11/16
A6MT-G-40		1/0–400	1/0–336	0.368–0.741	7 1/16	2 5/16
A6MT-G-100		250–1000	300–795	0.567–1.150	7¼	2 11/16
A6MT-G-150		556–1500	636–1272	0.856–1.412	7¾	3⅝
A6MT-H-25	1½	#4–250	#4–4/0	0.232–0.575	7 1/16	2 5/16
A6MT-H-40		1/0–400	1/0–336	0.368–0.741	7¼	
A6MT-H-100		250–1000	300–795	0.567–1.150	7 9/16	
A6MT-H-150		556–1500	636–1272	0.856–1.412	7⅞	
A6MT-H-250		1100–2500	1113–2300	1.209–1.823	7	4
A6MT-J-25	2	#4–250	#4–4/0	0.232–0.575	7⅜	4
A6MT-J-40		1/0–400	1/0–336	0.368–0.741	7¾	2 15/16
A6MT-J-100		250–1000	300–795	0.567–1.150	8⅛	
A6MT-J-150		556–1500	636–1272	0.856–1.412	8 9/16	
A6MT-J-250		1100–2500	1113–2300	1.209–1.823	9	4 5/16
A6MT-K-25	2½	#4–250	#4–4/0	0.232–0.575	7⅞	4
A6MT-K-40		1/0–400	1/0–336	0.368–0.741	8⅛	2 15/16
A6MT-K-100		250–1000	300–795	0.567–1.150	8 5/16	3¼
A6MT-K-150		556–1500	636–1272	0.857–1.412	9 1/16	3⅝
A6MT-K-250		1100–2500	1113–2300	1.209–1.823	9½	4 5/16
A6MT-L-25	3	#4–250	#4–4/0	0.232–0.575	8½	3
A6MT-L-40		1/0–400	1/0–336	0.368–0.741	9⅜	3¾
A6MT-L-100		250–1000	300–795	0.567–1.150	9 11/16	
A6MT-L-150		556–1500	636–1272	0.856–1.412	10¼	
A6MT-L-250		1100–2500	1113–2300	1.209–1.823	10½	4⅜

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

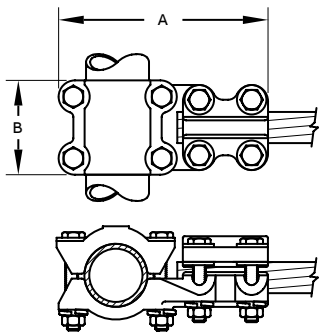
Type A6MT – Bolted tee, pipe to cable

Type A6MT – Bolted tee, pipe to cable

Cat. no.	Run SPS (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
A6MT-M-25	3½	#4–250	#4–4/0	0.232–0.575	9½	5
A6MT-M-40		1/0–400	1/0–336	0.368–0.741	9⅛	4¼
A6MT-M-100		250–1000	300–795	0.567–1.150	9¾	
A6MT-M-150		556–1500	636–1272	0.856–1.412	10¾	
A6MT-M-250		1100–2500	1113–2300	1.209–1.823	10⅞	
A6MT-P-25	4	#4–250	#4–4/0	0.232–0.575	9½	6
A6MT-P-40		1/0–400	1/0–336	0.368–0.741	10½	4¼
A6MT-P-100		250–1000	300–795	0.567–1.150	10 13/16	
A6MT-P-150		556–1500	636–1272	0.856–1.412	11 15/16	
A6MT-P-250		1100–2500	1113–2300	1.209–1.823	11 11/16	
A6MT-R-40	5	1/0–400	1/0–336	0.368–0.741	11½	
A6MT-R-100		250–1000	300–795	0.567–1.150	12¼	
A6MT-R-150		556–1500	636–1272	0.856–1.412	12⅝	
A6MT-R-250		1100–2500	1113–2300	1.209–1.823	13 9/16	
A6MT-S-40	6	1/0–400	1/0–336	0.368–0.741	12¾	
A6MT-S-100		250–1000	300–795	0.567–1.150	12¼	
A6MT-S-150		556–1500	636–1272	0.856–1.412		
A6MT-S-250		1100–2500	1113–2300	1.209–1.823	13⅞	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

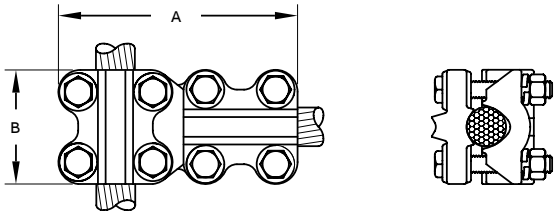
Type A6MT – Bolted tee, cable to cable

Type A6MT – Bolted tee, cable to cable

	Run			Tap				
Cat. no.	AAC (AWG or kcmil)	ACSR (AWG or kcmil)	min.–max. (in.)	AAC (AWG or kcmil)	ACSR (AWG or kcmil)	min.–max. (in.)	A (in.)	B (in.)
A6MT-25-25	#4–250	#4–4/0	0.232–0.575	#4–250	#4–4/0	0.232–0.575	6 3/16	3
A6MT-40-25	1/0–400	1/0–336	0.368–0.741	#4–250	#4–4/0	0.232–0.575	6 3/16	3
A6MT-40-40				1/0–400	1/0–336	0.368–0.741		
A6MT-40-100				250–1000	300–795	0.567–1.150	6 7/16	
A6MT-100-25	250–1000	300–795	0.567–1.150	#4–250	#4–4/0	0.232–0.575	6 9/16	3 1/4
A6MT-100-40				1/0–400	1/0–336	0.368–0.741		
A6MT-100-100				250–1000	300–795	0.567–1.150	6 13/16	
A6MT-150-25	556–1500	636–1272	0.856–1.412	#4–250	#4–4/0	0.232–0.575	6 15/16	3 5/8
A6MT-150-40				1/0–400	1/0–336	0.368–0.741	7 5/16	
A6MT-150-100				250–1000	300–795	0.567–1.150		
A6MT-150-150				556–1500	636–1272	0.856–1.412	7 11/16	
A6MT-250-40	1100–2500	1113–2300	1.209–1.823	1/0–400	1/0–336	0.368–0.741	7 15/16	3 5/8
A6MT-250-100				250–1000	300–795	0.567–1.150		4
A6MT-250-150				556–1500	636–1272	0.856–1.412	8 5/16	
A6MT-250-250				1100–2500	1113–2300	1.209–1.823	8 7/8	
A6MT-300-250	800–3000	795–2500	1.030–1.996	600–2500	636–2312	1.209–1.823	8 7/8	4

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

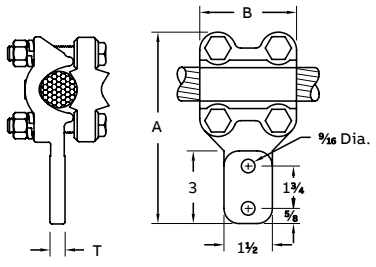
Type A7MT – Bolted tee, cable to flat

Type A7MT – Bolted tee, cable to flat

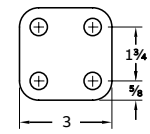
Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat						
A7MT-40-2N	1/0–400	1/0–336	0.368–0.741	6 3/16	3	9/16
A7MT-100-2N	250–1000	300–795	0.567–1.150	6 5/8	3 1/4	1/2
A7MT-150-2N	556–1500	636–1272	0.856–1.412	7 1/16	3 5/8	
A7MT-250-2N	1100–2500	1113–2300	1.209–1.823	10 7/8	3 3/4	
3" 4-Hole NEMA flat						
A7MT-40-4N	1/0–400	1/0–336	0.368–0.741	6 3/16	3	1/2
A7MT-100-4N	250–1000	300–795	0.567–1.150	6 5/8	3 1/4	
A7MT-150-4N	556–1500	636–1272	0.856–1.412	6 3/4	3 5/8	
A7MT-250-4N	1100–2500	1113–2300	1.209–1.823	7 3/4	3 3/4	5/8
4" 4-Hole NEMA flat						
A7MT-40-4NN	1/0–400	1/0–336	0.368–0.741	7 1/4	3	1/2
A7MT-100-4NN	250–1000	300–795	0.567–1.150	7 1/2	3 1/4	
A7MT-150-4NN	556–1500	636–1272	0.856–1.412	7 7/8	3 5/8	
A7MT-250-4NN	1100–2500	1113–2300	1.209–1.823	9 1/4	5 1/4	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

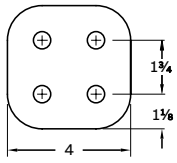
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

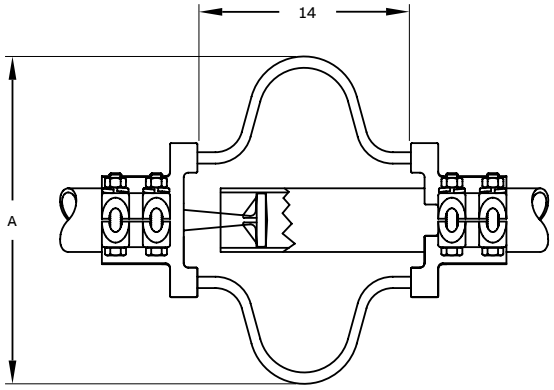
Type AFG – Bolted expansion coupler, pipe to pipe

Type AFG – Bolted expansion coupler, pipe to pipe

Cat. no.	SPS (in.)	A (in.)	Amps
AFG-F	1	12	650
AFG-G	1¼		810
AFG-H	1½	14	930
AFG-J	2		1155
AFG-K	2½	16	1550
AFG-L	3	17	1895
AFG-M	3½		2170
AFG-P	4	18	2000
AFG-R	5	20	
AFG-S	6		

For schedule 80 pipe, add “H” to catalog number; e.g. AFGH-K.
Use chart GA-735 for installation; see technical reference page 174.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

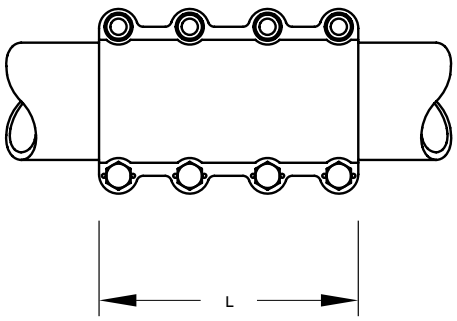
Type ABC – Bolted coupler/reducer, pipe to pipe

Type ABC – Bolted coupler/reducer, pipe to pipe

Cat. no.	Run SPS (in.)	Tap SPS (in.)	L (in.)
ABC-E	¾	¾	7¼
ABC-F-E	1	¾	7
ABC-F-F		1	6¼
ABC-G-E	1¼	¾	6⅞
ABC-G-F		1	6¾
ABC-G		1¼	7⅛
ABC-H-E	1½	¾	7⅝
ABC-H-F		1	6½
ABC-H-G		1¼	
ABC-H		1½	6¾
ABC-J-E	2	¾	7¼
ABC-J-F		1	
ABC-J-G		1¼	
ABC-J-H		1½	6½
ABC-J		2	7¼
ABC-K-E	2½	¾	7¼
ABC-K-F		1	
ABC-K-G		1¼	6⅞
ABC-K-H		1½	6½
ABC-K-J		2	7¾
ABC-K		2½	7½
ABC-L-E	3	¾	6½
ABC-L-F		1	6¾
ABC-L-G		1¼	
ABC-L-H		1½	7¾
ABC-L-J		2	8½
ABC-L-K		2½	7⅞
ABC-L		3	9
ABC-M-J	3½	2	8
ABC-M-K		2½	
ABC-M-L		3	8¾
ABC-M		3½	9¼
ABC-P-G	4	1¼	8
ABC-P-H		1½	
ABC-P-J		2	8¼
ABC-P-K		2½	8
ABC-P-L		3	9¼
ABC-P-M		3½	
ABC-P		4	10
ABC-R-H	5	1½	8
ABC-R-J		2	
ABC-R-K		2½	
ABC-R-L		3	8¾
ABC-R-M		3½	9¼
ABC-R-P		4	
ABC-R		5	13¾
ABC-S-J	6	2	8
ABC-S-K		2½	
ABC-S-L		3	8¾
ABC-S-M		3½	9¼
ABC-S-P		4	
ABC-S-R		5	13¾
ABC-S		6	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

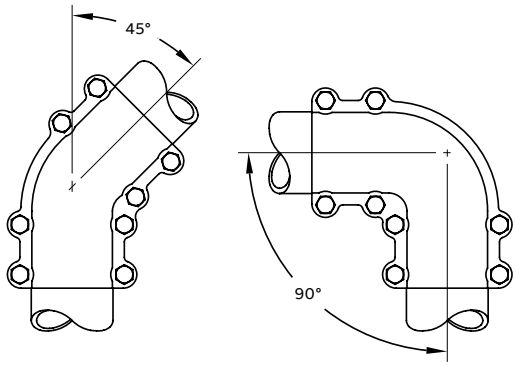
Type ABCE – Bolted elbow, pipe to pipe

Type ABCE – Bolted elbow, pipe to pipe

Cat. no.		
45°	**90°**	**SPS (in.)**
ABCE-F-45	ABCE-F-90	1
ABCE-G-45	ABCE-G-90	1¼
ABCE-H-45	ABCE-H-90	1½
ABCE-J-45	ABCE-J-90	2
ABCE-K-45	ABCE-K-90	2½
ABCE-L-45	ABCE-L-90	3
ABCE-M-45	ABCE-M-90	3½
ABCE-P-45	ABCE-P-90	4
ABCE-R-45	ABCE-R-90	5
ABCE-S-45	ABCE-S-90	6

For other configurations, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

Type ABR – Bolted reducer, pipe to cable

Type ABR – Bolted reducer, pipe to cable

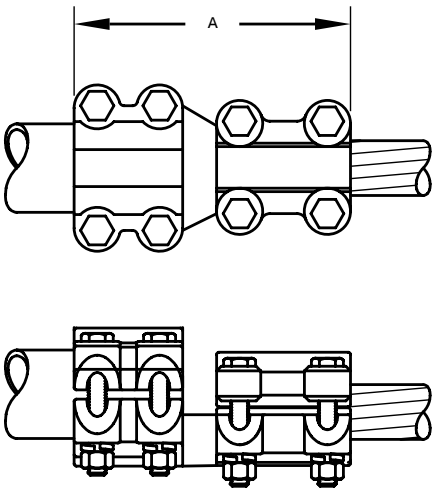
Cat. no.	Run SPS (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)
ABR-E-25	¾	#4–250	#4–4/0	0.232–0.575	6½
ABR-E-40		1/0–400	1/0–336	0.368–0.741	
ABR-E-100		250–1000	300–795	0.567–1.150	6⅞
ABR-E-150		556–1500	636–1272	0.856–1.412	
ABR-F-25	1	#4–250	#4–4/0	0.232–0.575	6½
ABR-F-40		1/0–400	1/0–336	0.368–0.741	
ABR-F-100		250–1000	300–795	0.567–1.150	6¾
ABR-F-150		556–1500	636–1272	0.856–1.412	7¼
ABR-G-25	1¼	#4–250	#4–4/0	0.232–0.575	6½
ABR-G-40		1/0–400	1/0–336	0.368–0.741	
ABR-G-100		250–1000	300–795	0.567–1.150	7⅛
ABR-G-150		556–1500	636–1272	0.856–1.412	
ABR-G-250		1100–2500	1113–2300	1.209–1.823	
ABR-H-25	1½	#4–250	#4–4/0	0.232–0.575	6⅞
ABR-H-40		1/0–400	1/0–336	0.368–0.741	
ABR-H-100		250–1000	300–795	0.567–1.150	6¾
ABR-H-150		556–1500	636–1272	0.856–1.412	7 5/16
ABR-H-250		1100–2500	1113–2300	1.209–1.823	7 15/16

Cat. no.	Run SPS (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)
ABR-J-25	2	#4–250	#4–4/0	0.232–0.575	7¼
ABR-J-40		1/0–400	1/0–336	0.368–0.741	
ABR-J-100		250–1000	300–795	0.567–1.150	
ABR-J-150		556–1500	636–1272	0.856–1.412	
ABR-J-250		1100–2500	1113–2300	1.209–1.823	8 7/16
ABR-K-25	2½	#4–250	#4–4/0	0.232–0.575	7
ABR-K-40		1/0–400	1/0–336	0.368–0.741	
ABR-K-100		250–1000	300–795	0.567–1.150	7¼
ABR-K-150		556–1500	636–1272	0.856–1.412	7⅝
ABR-K-250		1100–2500	1113–2300	1.209–1.823	7 15/16
ABR-L-25	3	#4–250	#4–4/0	0.232–0.575	7⅝
ABR-L-40		1/0–400	1/0–336	0.368–0.741	
ABR-L-100		250–1000	300–795	0.567–1.150	8⅛
ABR-L-150		556–1500	636–1272	0.856–1.412	8⅜
ABR-L-250		1100–2500	1113–2300	1.209–1.823	9 3/16
ABR-M-25	3½	#4–250	#4–4/0	0.232–0.575	8⅛
ABR-M-40		1/0–400	1/0–336	0.368–0.741	
ABR-M-100		250–1000	300–795	0.567–1.150	8⅞
ABR-M-150		556–1500	636–1272	0.856–1.412	
ABR-M-250		1100–2500	1113–2300	1.209–1.823	

Cat. no.	Run SPS (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)
ABR-P-25	4	#4–250	#4–4/0	0.232–0.575	9¾
ABR-P-40		1/0–400	1/0–336	0.368–0.741	
ABR-P-100		250–1000	300–795	0.567–1.150	
ABR-P-150		556–1500	636–1272	0.856–1.412	10½
ABR-P-250		1100–2500	1113–2300	1.209–1.823	10¾
ABR-R-25	5	#4–250	#4–4/0	0.232–0.575	9⅞
ABR-R-40		1/0–400	1/0–336	0.368–0.741	
ABR-R-100		250–1000	300–795	0.567–1.150	10⅛
ABR-R-150		556–1500	636–1272	0.856–1.412	10⅝
ABR-R-250		1100–2500	1113–2300	1.209–1.823	10 7/16
ABR-S-25	6	#4–250	#4–4/0	0.232–0.575	9⅞
ABR-S-40		1/0–400	1/0–336	0.368–0.741	
ABR-S-100		250–1000	300–795	0.567–1.150	10⅛
ABR-S-150		556–1500	636–1272	0.856–1.412	10⅝
ABR-S-250		1100–2500	1113–2300	1.209–1.823	10 7/16

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

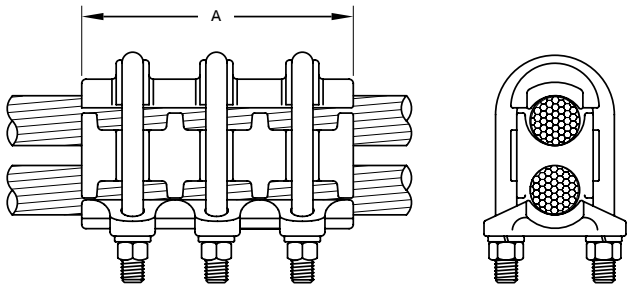
Type ABRU – Bolted parallel clamp, U-bolt style

Type ABRU – Bolted parallel clamp, U-bolt style

Cat. no.	Run & tap cable range ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	No. of bolts
ABRU2-26	1/0–266.8 (26/7)	0.398–0.642	3¼	2
ABRU2-39	3/0–397.5 (18/1)	0.502–0.743		
ABRU3-79	397.5 (18/1)–795 (30/19)	0.743–1.140	5⅝	3
ABRU3-159	795 (26/7)–1590 (45/7)	1.108–1.504	8	
ABRU3-230	2156 (84/19)–2312	1.762–1.802	8	

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

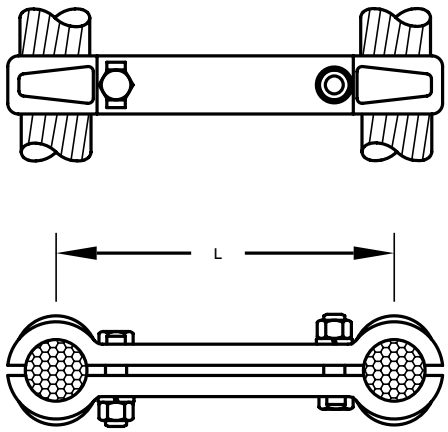
Type ACS2 – Cable spacer, two cables

Type ACS2 – Cable spacer, two cables

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min.–max. (in.)	L (in.)
ACS2-60-4	350–600	336.4–477	0.679–0.893	4
ACS2-60-8				8
ACS2-60-12				12
ACS2-90-4	795–900	636–715.5	1.019–1.094	4
ACS2-90-8	600–900	556.5–715.5	0.879–1.094	8
ACS2-90-12				12
ACS2-125-4	900–1250	715.5–1113	1.081–1.293	4
ACS2-125-8				8
ACS2-125-12				12
ACS2-160-4	1250–1600	1113–1431	1.288–1.427	4
ACS2-160-8				8
ACS2-160-12				12
ACS2-200-4	1500–2000	1272–1780	1.382–1.632	4
ACS2-200-8				8
ACS2-200-12				12
ACS2-250-8	2000–2500	2156–2167	1.630–1.824	8
ACS2-250-12				12

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

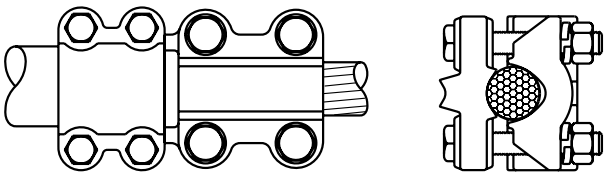
Type ABR and ABGS

Type ABR – Bolted coupler, pipe to cable

	Cable size							
	Run SPS		Tap		Cable diameter min.–max. (in.)			
Cat. no.	AAC (AWG or kcmil)	ACSR (AWG or kcmil)	AAC (AWG or kcmil)	ACSR (AWG or kcmil)	Run	Tap	A (in.)	B (in.)
ABR-25-25	#4–250	#4–4/0	#4–250	#4–4/0	0.232–0.575	0.232–0.575	3	3
ABR-40-25	1/0–400	1/0–336	#4–250	#4–4/0	0.368–0.741	0.232–0.575		
ABR-40-40			1/0–400	1/0–336		0.368–0.741		
ABR-100-40	250–1000	300–795	1/0–400	1/0–336	0.567–1.150	0.368–0.741	3⅜	3
ABR-100-100			250–1000	300–795		0.567–1.150		3⅜
ABR-150-40	556–1500	636–1272	1/0–400	1/0–336	0.856–1.412	0.232–0.893	3¾	3
ABR-150-100			250–1000	300–795		0.567–1.150		3⅜
ABR-250-100	1100–2500	1113–2300	250–1000	300–795	1.209–1.823	0.567–1.150	4	3⅜
ABR-250-250	600–2500	556.5–2300	600–2500	556.5–2300	0.893–1.823	0.893–1.823		4

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions

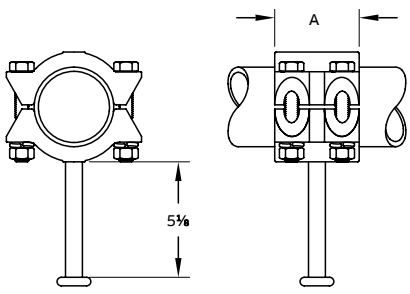


Type ABGS – Bolted ground stud, pipe to ground

Cat. no.	SPS (in.)	B (in.)
ABGS-E	¾	3
ABGS-F	1	
ABGS-G	1¼	
ABGS-H	1½	
ABGS-J	2	
ABGS-K	2½	3¾
ABGS-L	3	
ABGS-M	3½	4¼
ABGS-P	4	
ABGS-R	5	
ABGS-S	6	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

Type ABN – Bolted terminal, pipe to flat

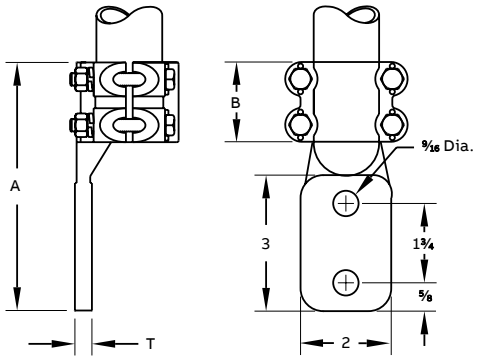
Type ABN – Bolted terminal, pipe to flat

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
ABN-E-2N	¾	6⅝	3	½	600
ABN-F-2N	1	6¾			
ABN-G-2N	1¼	7¾		⅝	
ABN-H-2N	1½	7¼			
ABN-J-2N	2	7 7/16			
ABN-K-2N	2½	7½			
ABN-L-2N	3	8	3¾	¾	
ABN-M-2N	3½	7¾	4¼	⅞	
ABN-P-2N	4	8			
ABN-R-2N	5	11⅜	6½	1	
ABN-S-2N	6	12		1¼	
3" 4-Hole NEMA flat					
ABN-E-4N	¾	6½	3	½	600
ABN-F-4N	1	6¾			650
ABN-G-4N	1¼	6½			810
ABN-H-4N	1½				930
ABN-J-4N	2	7 7/16		⅝	1155
ABN-K-4N	2½	7½			1550
ABN-L-4N	3	8	3¾	¾	1895
ABN-M-4N	3½	9½	4¼	⅞	2170
ABN-P-4N	4	9⅝			2460
ABN-R-4N	5	11⅜	6½	1	3080
ABN-S-4N	6	12		1¼	3735

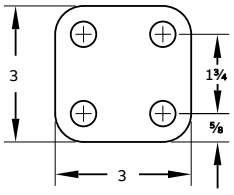
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
4" 4-Hole NEMA flat					
ABN-F-4NN	1	7⅞	3	½	1155
ABN-G-4NN	1¼	8⅛		⅝	1550
ABN-H-4NN	1½	8¼			1895
ABN-J-4NN	2	7¾			1155
ABN-K-4NN	2½	8		¾	1550
ABN-L-4NN	3	9⅜	3¾		1895
ABN-M-4NN	3½	10½	4¼	13/16	2170
ABN-P-4NN	4	10¼		⅞	2460
ABN-R-4NN	5	11⅜	6½	1	3080
ABN-S-4NN	6	12		1¼	3735

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

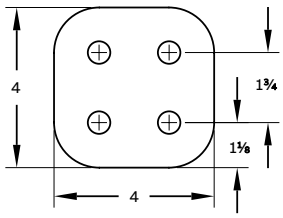
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

Type ABN-45 – Bolted terminal, pipe to flat at 45°

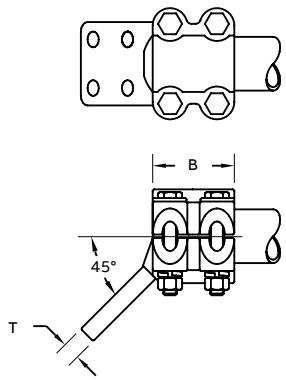
Type ABN-45 – Bolted terminal, pipe to flat at 45°

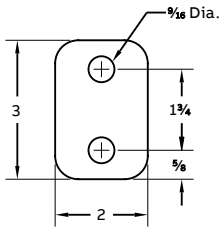
Cat. no.	SPS (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat				
ABN-E-2N45	¾	3	½	600
ABN-F-2N45	1			
ABN-G-2N45	1¼		⅝	
ABN-H-2N45	1½			
ABN-J-2N45	2			
ABN-K-2N45	2½			
ABN-L-2N45	3	3¾	¾	
ABN-M-2N45	3½	4¼	⅞	
ABN-P-2N45	4			
ABN-R-2N45	5	6½	1	
ABN-S-2N45	6		1¼	
3" 4-Hole NEMA flat				
ABN-E-4N45	¾	3	½	600
ABN-F-4N45	1			650
ABN-G-4N45	1¼			810
ABN-H-4N45	1½			930
ABN-J-4N45	2		⅝	1155
ABN-K-4N45	2½			1550
ABN-L-4N45	3	3¾	¾	1895
ABN-M-4N45	3½	4¼	⅞	2170
ABN-P-4N45	4			2460
ABN-R-4N45	5	6½	1	3080
ABN-S-4N45	6		1¼	3735

Cat. no.	SPS (in.)	B (in.)	T (in.)	Amps
4" 4-Hole NEMA flat				
ABN-F-4NN45	1	3	½	1155
ABN-G-4NN45	1¼		⅝	1550
ABN-H-4NN45	1½			1895
ABN-J-4NN45	2			1155
ABN-K-4NN45	2½		¾	1550
ABN-L-4NN45	3	3¾		1895
ABN-M-4NN45	3½	4¼	1 3/16	2170
ABN-P-4NN45	4		⅞	2460
ABN-R-4NN45	5	6½	1	3080
ABN-S-4NN45	6		1¼	3735

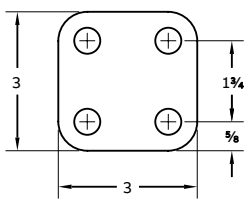
Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions

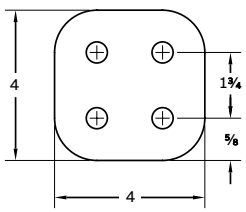




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

Type ABN-90 – Bolted terminal, pipe to flat at 90°

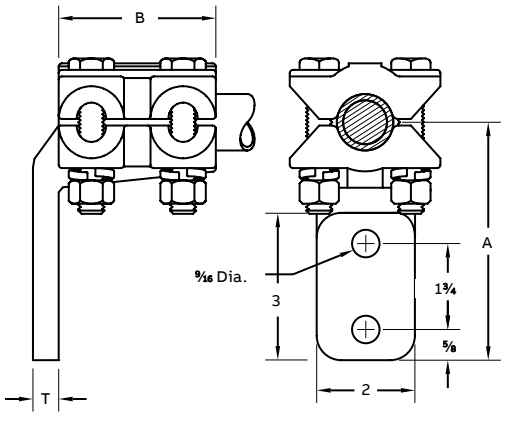
Type ABN-90 – Bolted terminal, pipe to flat at 90°

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
ABN-E-2N90	¾	4⅝	3	½	600
ABN-F-2N90	1	4¾			
ABN-G-2N90	1¼	5⅛		⅝	
ABN-H-2N90	1½	5¼			
ABN-J-2N90	2				
ABN-K-2N90	2½				
ABN-L-2N90	3	5¾	3¾	¾	
ABN-M-2N90	3½	6¼	4¼	⅞	
ABN-P-2N90	4	6¾			
ABN-R-2N90	5	7½	6½	1	
ABN-S-2N90	6	8		1¼	
3" 4-Hole NEMA flat					
ABN-E-4N90	¾	4⅝	3	½	600
ABN-F-4N90	1	4¾			650
ABN-G-4N90	1¼	5⅛			810
ABN-H-4N90	1½	5¼			930
ABN-J-4N90	2			⅝	1155
ABN-K-4N90	2½				1550
ABN-L-4N90	3	5¾	3¾	¾	1895
ABN-M-4N90	3½	6¼	4¼		2170
ABN-P-4N90	4	6¾		⅞	2460
ABN-R-4N90	5	7½	6½	1¼	3080
ABN-S-4N90	6	8			3735

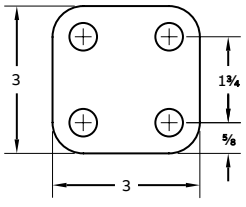
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
4" 4-Hole NEMA flat					
ABN-F-4NN90	1	5¾	3	½	1155
ABN-G-4NN90	1¼	6⅛		⅝	1550
ABN-H-4NN90	1½	6¼			1895
ABN-J-4NN90	2				1155
ABN-K-4NN90	2½			¾	1550
ABN-L-4NN90	3	6¾	3¾		1895
ABN-M-4NN90	3½	7¼	4¼	13⁄16	2170
ABN-P-4NN90	4	7¾		⅞	2460
ABN-R-4NN90	5	8½	6½	1	3080
ABN-S-4NN90	6	9		1¼	3735

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

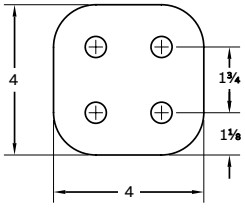
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

Type ABNC – Bolted terminal, pipe to flat, center formed

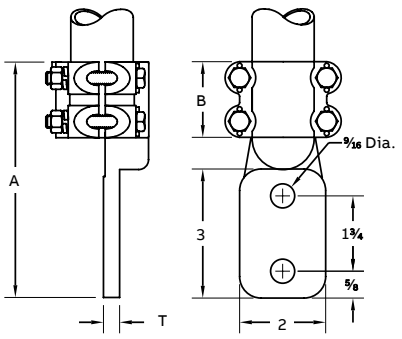
Type ABNC – Bolted terminal, pipe to flat, center formed

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
ABNC-E-2N	¾	6⅝	3	½	600
ABNC-F-2N	1	6¾			
ABNC-G-2N	1¼	7¾		⅝	
ABNC-H-2N	1½	7¼			
ABNC-J-2N	2	7 7/16			
ABNC-K-2N	2½	7½			
ABNC-L-2N	3	8	3¾	¾	
ABNC-M-2N	3½	7¾	4¼	⅞	
ABNC-P-2N	4	8			
ABNC-R-2N	5	11⅜	6½	1	
ABNC-S-2N	6	12		1¼	
3" 4-Hole NEMA flat					
ABNC-E-4N	¾	6½	3	½	600
ABNC-F-4N	1	6¾			650
ABNC-G-4N	1¼	6½			810
ABNC-H-4N	1½				930
ABNC-J-4N	2	7 7/16		⅝	1155
ABNC-K-4N	2½	7½			1550
ABNC-L-4N	3	8	3¾	¾	1895
ABNC-M-4N	3½	9½	4¼	⅞	2170
ABNC-P-4N	4	9⅝			2460
ABNC-R-4N	5	11⅜	6½	1	3080
ABNC-S-4N	6	12		1¼	3735

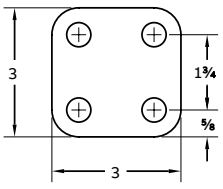
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)	Amps
4" 4-Hole NEMA flat					
ABNC-F-4NN	1	7⅝	3	½	1155
ABNC-G-4NN	1¼	8⅛		⅝	1550
ABNC-H-4NN	1½	8¼			1895
ABNC-J-4NN	2	7¾			1155
ABNC-K-4NN	2½	8		¾	1550
ABNC-L-4NN	3	9⅜	3¾		1895
ABNC-M-4NN	3½	10½	4¼	1 3/16	2170
ABNC-P-4NN	4	10¼		⅞	2460
ABNC-R-4NN	5	11⅜	6½	1	3080
ABNC-S-4NN	6	12		1¼	3735

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

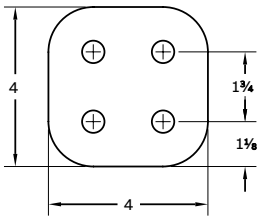
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

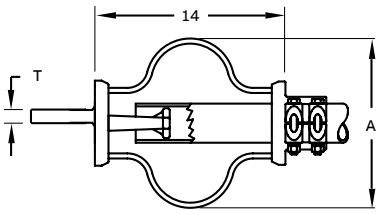
Type ABEPC – Bolted expansion terminal, pipe to flat, center formed

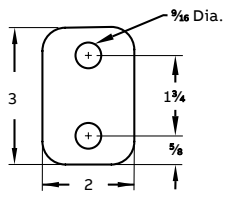
Type ABEPC – Bolted expansion terminal, pipe to flat, center formed

Cat. no.	SPS (in.)	A (in.)	T (in.)	Amps
2-Hole NEMA flat				
ABEPC-H-2N	1½	14	¾	600
ABEPC-J-2N	2			
ABEPC-K-2N	2½	16		
ABEPC-L-2N	3	17		
ABEPC-M-2N	3½			
ABEPC-P-2N	4	18		
ABEPC-R-2N	5	20		
ABEPC-S-2N	6			
3" 4-Hole NEMA flat				
ABEPC-H-4N	1½	14	1	930
ABEPC-J-4N	2			1155
ABEPC-K-4N	2½	16		1550
ABEPC-L-4N	3	17		1895
ABEPC-M-4N	3½			2000
ABEPC-P-4N	4	18		
ABEPC-R-4N	5	20		
ABEPC-S-4N	6			
4" 4-Hole NEMA flat				
ABEPC-H-4NN	1½	14	1	930
ABEPC-J-4NN	2			1155
ABEPC-K-4NN	2½	16		1550
ABEPC-L-4NN	3	17		1895
ABEPC-M-4NN	3½			2000
ABEPC-P-4NN	4	18		
ABEPC-R-4NN	5	20		
ABEPC-S-4NN	6			

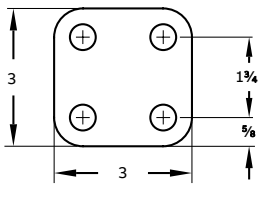
Other sizes available; consult customer service.
For sched. 80 pipe, add "H" to catalog number; e.g. ABEPCH-R-4NN.
Use chart GA-735 for installation; see technical reference page 174.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
For 90° pad, add suffix "90" to catalog number; e.g. ABEPCH-R-4NN90.
All pads are finished on both sides.

Dimensions

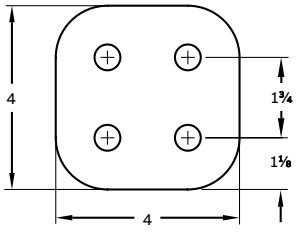




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

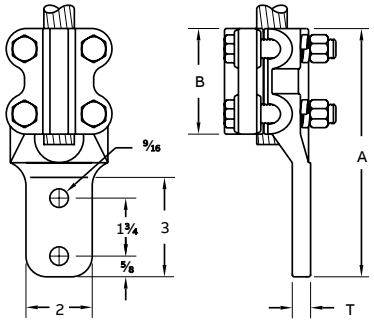
Type A7M – Bolted terminal, cable to flat

Type A7M – Bolted terminal, cable to flat

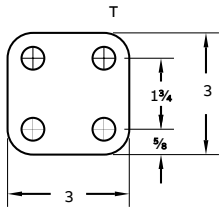
Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat						
A7M-25-2N	#4–250	#4–4/0	0.232–0.575	7	3	9/16
A7M-40-2N	1/0–400	1/0–336	0.368–0.741			
A7M-100-2N	250–1000	300–795	0.567–1.150	7 1/4	3 1/4	
A7M-150-2N	556–1500	636–1272	0.856–1.412	7 5/8	3 5/8	5/8
A7M-250-2N	1100–2500	1113–2300	1.209–1.823	8	4	3/4
3" 4-Hole NEMA flat						
A7M-25-4N	#4–250	#4–4/0	0.232–0.575	7	3	9/16
A7M-40-4N	1/0–400	1/0–336	0.368–0.741			
A7M-100-4N	250–1000	300–795	0.567–1.150	7 1/4	3 1/4	
A7M-150-4N	556–1500	636–1272	0.856–1.412	7 5/8	3 5/8	5/8
A7M-250-4N	1100–2500	1113–2300	1.209–1.823	8	4	
4" 4-Hole NEMA flat						
A7M-40-4NN	1/0–400	1/0–336	0.368–0.741	7 3/4	3	9/16
A7M-100-4NN	250–1000	300–795	0.567–1.150	8 1/4	3 1/4	5/8
A7M-150-4NN	556–1500	636–1272	0.856–1.412	8 5/8	3 5/8	
A7M-250-4NN	1100–2500	1113–2300	1.209–1.823	9 1/4	4	
A7M-300-4NN	800–3000	795–2500	1.030–1.996	9 5/16	4 1/16	1

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

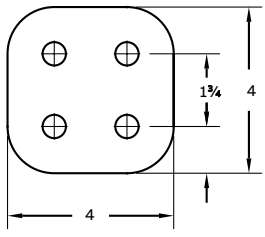
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

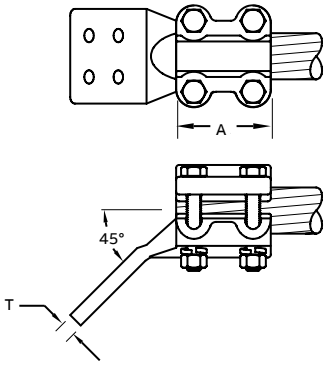
Type A7M-45 – Bolted terminal, cable to flat at 45°

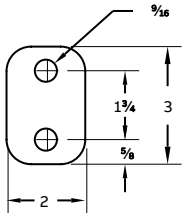
Type A7M-45 – Bolted terminal, cable to flat at 45°

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat					
A7M-25-2N45	#4–250	#4–4/0	0.232–0.575	3	9/16
A7M-40-2N45	1/0–400	1/0–336	0.368–0.741		
A7M-100-2N45	250–1000	300–795	0.567–1.150	3 1/4	
A7M-150-2N45	556–1500	636–1272	0.856–1.412	3 5/8	5/8
A7M-250-2N45	1100–2500	1113–2300	1.209–1.823	4	3/4
3" 4-Hole NEMA flat					
A7M-25-4N45	#4–250	#4–4/0	0.232–0.575	3	9/16
A7M-40-4N45	1/0–400	1/0–336	0.368–0.741		
A7M-100-4N45	250–1000	300–795	0.567–1.150	3 1/4	
A7M-150-4N45	556–1500	636–1272	0.856–1.412	3 5/8	5/8
A7M-250-4N45	1100–2500	1113–2300	1.209–1.823	4	
4" 4-Hole NEMA flat					
A7M-40-4NN45	1/0–400	1/0–336	0.368–0.741	3	9/16
A7M-100-4NN45	250–1000	300–795	0.567–1.150	3 1/4	5/8
A7M-150-4NN45	556–1500	636–1272	0.856–1.412	3 5/8	
A7M-250-4NN45	1100–2500	1113–2300	1.209–1.823	4	

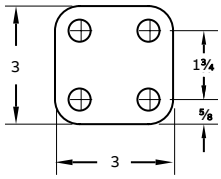
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions

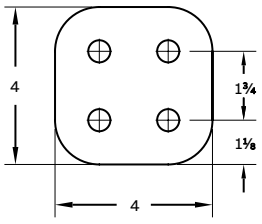




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

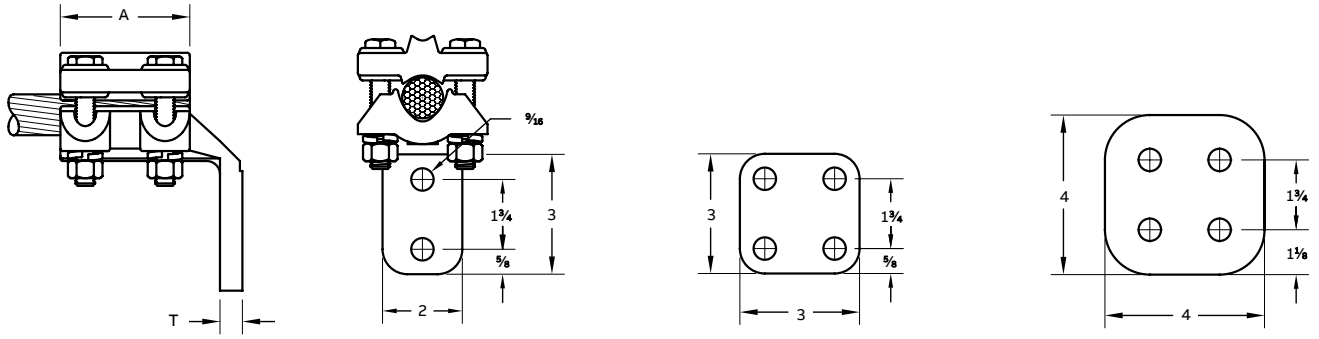
Type A7M-90 – Bolted terminal, cable to flat at 90°

Type A7M-90 – Bolted terminal, cable to flat at 90°

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat					
A7M-25-2N90	#4–250	#4–4/0	0.232–0.575	3	9/16
A7M-40-2N90	1/0–400	1/0–336	0.368–0.741		
A7M-100-2N90	250–1000	300–795	0.567–1.150	3 1/4	
A7M-150-2N90	556–1500	636–1272	0.856–1.412	3 5/8	5/8
A7M-250-2N90	1100–2500	1113–2300	1.209–1.823	4	3/4
3" 4-Hole NEMA flat					
A7M-25-4N90	#4–250	#4–4/0	0.232–0.575	3	9/16
A7M-40-4N90	1/0–400	1/0–336	0.368–0.741		
A7M-100-4N90	250–1000	300–795	0.567–1.150	3 1/4	
A7M-150-4N90	556–1500	636–1272	0.856–1.412	3 5/8	5/8
A7M-250-4N90	1100–2500	1113–2300	1.209–1.823	4	
4" 4-Hole NEMA flat					
A7M-40-4NN90	1/0–400	1/0–336	0.368–0.741	3	9/16
A7M-100-4NN90	250–1000	300–795	0.567–1.150	3 1/4	5/8
A7M-150-4NN90	556–1500	636–1272	0.856–1.412	3 5/8	
A7M-250-4NN90	1100–2500	1113–2300	1.209–1.823	4	
A7M-300-4NN90	800–3000	795–2500	1.030–1.996	4 1/16	1

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



2-Hole NEMA flat

3" 4-Hole NEMA flat

4" 4-Hole NEMA flat

Bolted aluminum connectors

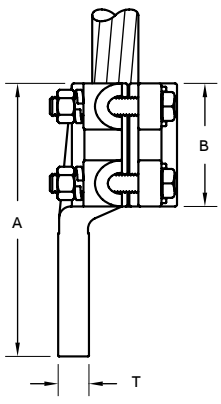
Type A7MM1 – Bolted terminal, two cables to flat, one-cap design

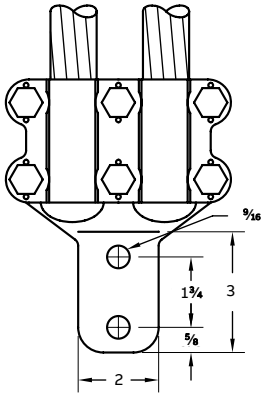
Type A7MM1 – Bolted terminal, two cables to flat, one-cap design

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat						
A7MM1-25-2N	#4–250	#4–4/0	0.232–0.575	6⅝	3	½
A7MM1-40-2N	1/0–400	1/0–336	0.368–0.741			
A7MM1-100-2N	250–1000	300–795	0.567–1.150	6⅞	3¼	¾
A7MM1-150-2N	600–1500	636–1272	0.891–1.412	7¼	3⅝	1
A7MM1-250-2N	1100–2500	1133–2300	1.209–1.823	7⅝	4	1¼
3" 4-Hole NEMA flat						
A7MM1-25-4N	#4–250	#4–4/0	0.232–0.575	6⅝	3	½
A7MM1-40-4N	1/0–400	1/0–336	0.368–0.741			
A7MM1-100-4N	250–1000	300–795	0.567–1.150	6⅞	3¼	
A7MM1-150-4N	600–1500	636–1272	0.891–1.412	7¼	3⅝	⅞
A7MM1-250-4N	1100–2500	1133–2300	1.209–1.823	7⅝	4	1
4" 4-Hole NEMA flat						
A7MM1-40-4NN	1/0–400	1/0–336	0.368–0.741	7⅞	3	½
A7MM1-100-4NN	250–1000	300–795	0.567–1.150	8⅛	3¼	
A7MM1-150-4NN	600–1500	636–1272	0.891–1.412	8½	3⅝	⅞
A7MM1-250-4NN	1100–2500	1133–2300	1.209–1.823	8⅞	4	

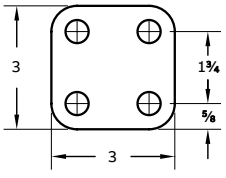
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Other sizes available; consult customer service.
All pads are finished on both sides.

Dimensions

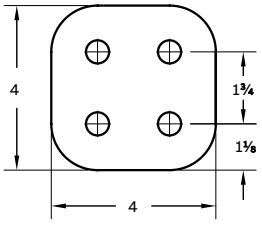




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

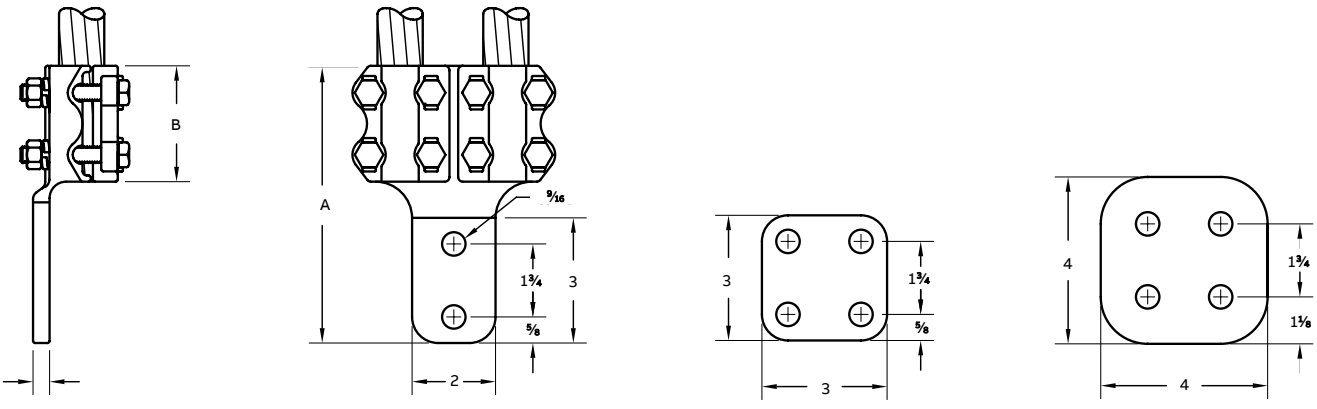
Type A7MM – Bolted terminal, two cables to flat, two-cap design

Type A7MM – Bolted terminal, two cables to flat, two-cap design

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat						
A7MM-60-2N	350–600	336.4–477	0.679–0.893	7 3/16	3 3/16	1/2
A7MM-90-2N	600–900	556.5–715.5	0.879–1.094	7 1/4	3 1/2	
3" 4-Hole NEMA flat						
A7MM-60-4N	350–600	336.4–477	0.679–0.893	7 3/16	3 3/16	1/2
A7MM-90-4N	600–900	556.5–715.5	0.879–1.094	7 1/4	3 1/2	
A7MM-125-4N	900–1250	715.5–1113	1.036–1.293	7 1/2		
A7MM-160-4N	1250-1600	1113-1272	1.259–1.454	8 1/8	4 1/4	3/4
A7MM-200-4N	1500-2000	1272-1590	1.345–1.630		4 1/2	
4" 4-Hole NEMA flat						
A7MM-125-4NN	900–1250	715.5–1113	1.036–1.293	8 1/8	3 9/16	1/2
A7MM-160-4NN	1250-1600	1113-1272	1.259–1.454	8 5/8	4 1/4	9/16
A7MM-200-4NN	1500-2000	1272-1590	1.349–1.630	9 1/8	4 1/2	3/4
A7MM-250-4NN	1800–2500	–	1.548–1.823	10	5 1/4	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Other sizes available; consult customer service.
All pads are finished on both sides.

Dimensions



2-Hole NEMA flat

3" 4-Hole NEMA flat

4" 4-Hole NEMA flat

Bolted aluminum connectors

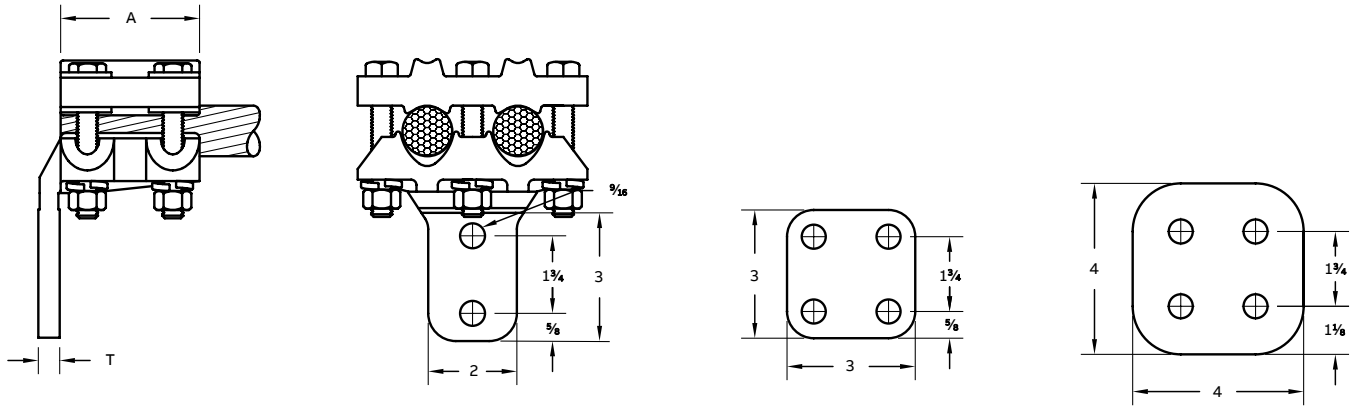
Type A7MM1-90 – Bolted terminal, two cables to flat at 90°, one-cap design

Type A7MM1-90 – Bolted terminal, two cables to flat at 90°, one-cap design

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat					
A7MM1-25-2N90	#4–250	#4–4/0	0.232–0.575	3	½
A7MM1-40-2N90	1/0–400	1/0–336	0.368–0.741		
A7MM1-100-2N90	250–1000	300–795	0.567–1.150	3¼	¾
A7MM1-150-2N90	556–1500	636–1272	0.856–1.412	3⅝	1
A7MM1-250-2N90	1100–2500	1133–2300	1.209–1.823	4	1¼
3" 4-Hole NEMA flat					
A7MM1-25-4N90	#4–250	#4–4/0	0.232–0.575	3	½
A7MM1-40-4N90	1/0–400	1/0–336	0.368–0.741		
A7MM1-100-4N90	250–1000	300–795	0.567–1.150	3¼	
A7MM1-150-4N90	556–1500	636–1272	0.856–1.412	3⅝	⅞
A7MM1-250-4N90	1100–2500	1133–2300	1.209–1.823	4	1
4" 4-Hole NEMA flat					
A7MM1-40-4NN90	1/0–400	1/0–336	0.368–0.741	3	½
A7MM1-100-4NN90	250–1000	300–795	0.567–1.150	3¼	
A7MM1-150-4NN90	556–1500	636–1272	0.856–1.412	3⅝	⅞
A7MM1-250-4NN90	1100–2500	1133–2300	1.209–1.823	4	

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



2-Hole NEMA flat

3" 4-Hole NEMA flat

4" 4-Hole NEMA flat

Bolted aluminum connectors

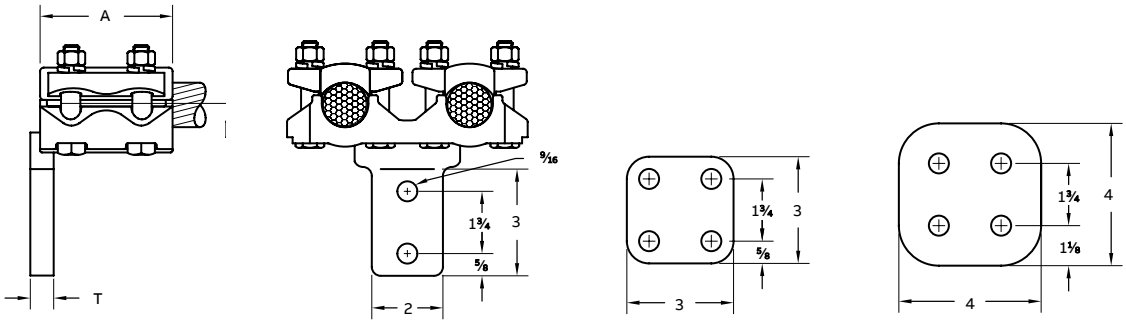
Type A7MM-90 – Bolted terminal, two cables to flat at 90°, two-cap design

Type A7MM-90 – Bolted terminal, two cables to flat at 90°, two-cap design

Cat. no.	Cable size AAC (kcmil)	Cable size ACSR (kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat					
A7MM-60-2N90	350–600	336.4–477	0.679–0.893	3 3/16	1/2
A7MM-90-2N90	600–900	556.5–715.5	0.879–1.094	3 1/2	
3" 4-Hole NEMA flat					
A7MM-60-4N90	350–600	336.4–477	0.679–0.893	3 3/16	1/2
A7MM-90-4N90	600–900	556.5–715.5	0.879–1.094	3 1/2	
A7MM-125-4N90	900–1250	715.5–1113	1.036–1.293		
A7MM-160-4N90	1250–1600	1113–1272	1.259–1.454	4 1/2	3/4
A7MM-200-4N90	1500–2000	1272–1590	1.345–1.630		
4" 4-Hole NEMA flat					
A7MM-125-4NN90	900–1250	715.5–1113	1.036–1.293	3 9/16	1/2
A7MM-160-4NN90	1250–1600	1113–1272	1.259–1.454	4 1/4	9/16
A7MM-200-4NN90	1500–2000	1272–1590	1.345–1.630	4 1/2	3/4
A7MM-250-4NN90	1800–2500	1113–2300	1.548–1.823	5 1/4	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Other sizes available; consult customer service.
All pads are finished on both sides.

Dimensions



2-Hole NEMA flat

3" 4-Hole NEMA flat

4" 4-Hole NEMA flat

Bolted aluminum connectors

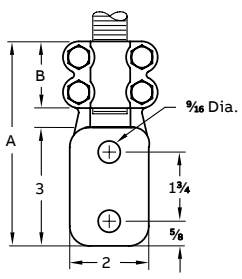
Type AVIE – Bolted stud, stud to flat

Type AVIE – Bolted stud, stud to flat

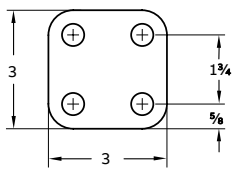
Cat. no.	Stud size (in.)	A (in.)	B (in.)	Pad thickness (in.)
2-Hole NEMA flat				
AVIE-6-2N	1⅛–12	6⅞	2⅜	9⁄16
AVIE-8-2N	1¼–12			
AVIE-10-2N	1½–12			5⁄8
AVIE-11B-2N	1¾–12		2½	¾
AVIE-13-2N	2–12			
3" 4-Hole NEMA flat				
AVIE-6-4N	1⅛–12	6⅞	2⅜	9⁄16
AVIE-8-4N	1¼–12			
AVIE-10-4N	1½–12			5⁄8
AVIE-11B-4N	1¾–12		2½	¾
AVIE-13-4N	2–12			
AVIE-13A-4N	2¼–12	7¼	3	1
AVIE-13B-4N	2½–12			
AVIE-15-4N	3–12		3⅛	
AVIE-15A-4N	3½–12			1¼
AVIE-16-4N	4–12			
4" 4-Hole NEMA flat				
AVIE-6-4NN	1⅛–12	8	2⅜	9⁄16
AVIE-8-4NN	1¼–12			
AVIE-10-4NN	1½–12			5⁄8
AVIE-11B-4NN	1¾–12		2½	¾
AVIE-13-4NN	2–12			
AVIE-13A-4NN	2¼–12	8 7⁄16	3	1
AVIE-13B-4NN	2½–12			
AVIE-15-4NN	3–12		3⅛	
AVIE-15A-4NN	3½–12			1¼
AVIE-16-4NN	4–12			

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

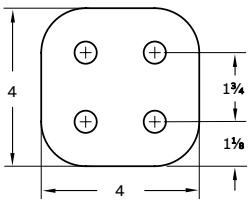
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

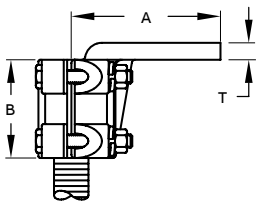
Type AVIE-90 – Bolted stud, stud to flat at 90°

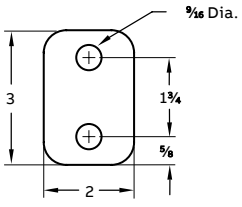
Type AVIE-90 — Bolted stud, stud to flat at 90°

Cat. no.	Stud size (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat				
AVIE-6-2N90	1⅛–12	5¼	2⅜	9⁄16
AVIE-8-2N90	1¼–12			
AVIE-10-2N90	1½–12			5⁄8
AVIE-11B-2N90	1¾–12		2½	¾
AVIE-13-2N90	2–12			
3" 4-Hole NEMA flat				
AVIE-6-4N90	1⅛–12	5¼	2⅜	9⁄16
AVIE-8-4N90	1¼–12			
AVIE-10-4N90	1½–12			5⁄8
AVIE-11B-4N90	1¾–12		2½	
AVIE-13-4N90	2–12			
AVIE-13A-4N90	2¼–12	5½	3	1
AVIE-13B-4N90	2½–12	5¾		
AVIE-15-4N90	3–12	6	3⅛	
AVIE-15A-4N90	3½–12	6¼		1¼
AVIE-16-4N90	4–12	6¾		
4" 4-Hole NEMA flat				
AVIE-6-4NN90	1⅛–12	6¼	2⅜	9⁄16
AVIE-8-4NN90	1¼–12			
AVIE-10-4NN90	1½–12			5⁄8
AVIE-11B-4NN90	1¾–12		2½	¾
AVIE-13-4NN90	2–12			
AVIE-13A-4NN90	2¼–12	6½	3	1
AVIE-13B-4NN90	2½–12	6¾		
AVIE-15-4NN90	3–12	7	3⅛	
AVIE-15A-4NN90	3½–12	7¼		1¼
AVIE-16-4NN90	4–12	7¾		

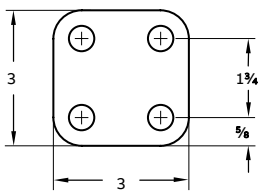
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions

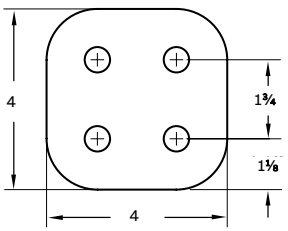




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

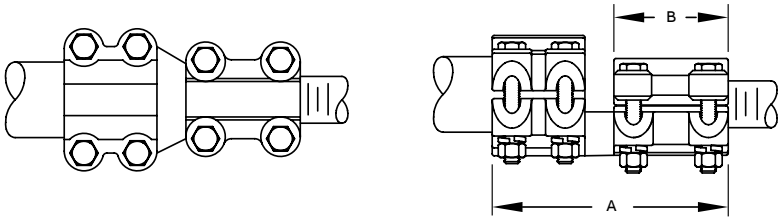
Type AVIC – Bolted stud, stud to pipe, vertical take-off

Type AVIC – Bolted stud, stud to pipe, vertical take-off

Cat. no.	Stud size (in.)	SPS (in.)	A (in.)	B (in.)
AVIC-6-E	1⅛–12	¾	5¾	3
AVIC-6-F		1		
AVIC-6-G		1¼		
AVIC-6-H		1½		
AVIC-6-J		2		
AVIC-8-E	1¼–12	¾		
AVIC-8-F		1		
AVIC-8-G		1¼		
AVIC-8-H		1½		
AVIC-8-J		2		
AVIC-10-E	1½–12	¾		
AVIC-10-F		1		
AVIC-10-G		1¼		
AVIC-10-H		1½		
AVIC-10-J		2		
AVIC-10-K		2½		
AVIC-10-L		3	7	3¾
AVIC-11B-E	1¾–12	¾	5¾	3
AVIC-11B-F		1		
AVIC-11B-G		1¼		
AVIC-11B-H		1½		
AVIC-11B-J		2		
AVIC-11B-K		2½		
AVIC-11B-L		3	7¼	3¾
AVIC-13-E	2–12	¾	5¾	3
AVIC-13-F		1		
AVIC-13-G		1¼		
AVIC-13-H		1½		
AVIC-13-J		2		
AVIC-13-K		2½		
AVIC-13-L		3	7 7/16	3¾

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

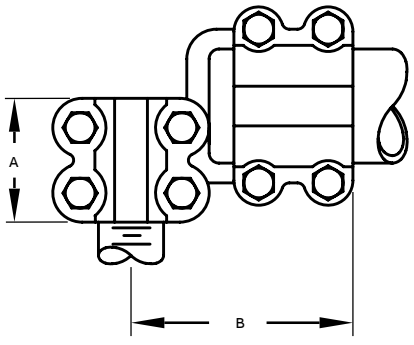
Type AVIC-90 – Bolted stud, stud to pipe at 90°

Type AVIC-90 – Bolted stud, stud to pipe at 90°

Cat. no.	Stud size (in.)	SPS (in.)	A (in.)	B (in.)
AVIC-6-E90	1⅛–12	¾	2⅜	5
AVIC-6-F90		1		
AVIC-6-G90		1¼		
AVIC-6-H90		1½		
AVIC-6-J90		2		
AVIC-8-E90	1¼–12	¾		5¼
AVIC-8-F90		1		
AVIC-8-G90		1¼		
AVIC-8-H90		1½		
AVIC-8-J90		2		
AVIC-10-E90	1½–12	¾		5½
AVIC-10-F90		1		
AVIC-10-G90		1¼		
AVIC-10-H90		1½		
AVIC-10-J90		2		
AVIC-10-K90		2½		
AVIC-10-L90		3		5¾
AVIC-11B-E90	1¾–12	¾	2½	
AVIC-11B-F90		1		
AVIC-11B-G90		1¼		
AVIC-11B-H90		1½		
AVIC-11B-J90		2		
AVIC-11B-K90		2½		
AVIC-11B-L90		3		6
AVIC-13-E90	2–12	¾		
AVIC-13-F90		1		
AVIC-13-G90		1¼		
AVIC-13-H90		1½		
AVIC-13-J90		2		
AVIC-13-K90		2½		
AVIC-13-L90		3		7

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

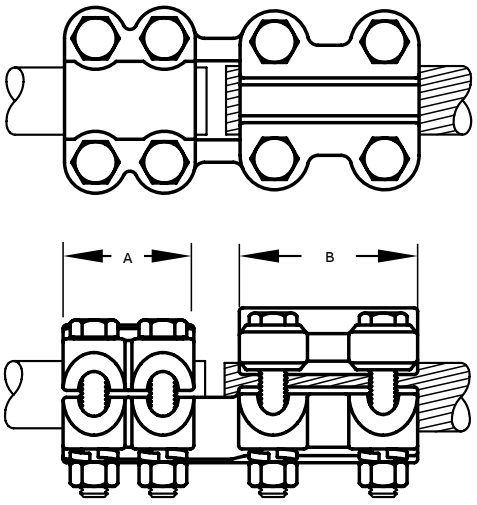
Type AVID – Bolted stud, stud to cable

Type AVID – Bolted stud, stud to cable

Cat. no.	Stud size (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
AVID-6-25	1⅛–12	#4–250	#4–4/0	0.232–0.575	2⅜	3
AVID-6-40		1/0–400	1/0–336	0.368–0.741		
AVID-6-100		250–1000	300–795	0.567–1.150		3¼
AVID-6-150		556–1500	636–1272	0.856–1.412		3⅝
AVID-6-250		1100–2500	1113–2300	1.209–1.823		4
AVID-8-25	1¼–12	#4–250	#4–4/0	0.232–0.575		3
AVID-8-40		1/0–400	1/0–336	0.368–0.741		
AVID-8-100		250–1000	300–795	0.567–1.150		3¼
AVID-8-150		556–1500	636–1272	0.856–1.412		3⅝
AVID-8-250		1100–2500	1113–2300	1.209–1.823		4
AVID-10-25	1½–12	#4–250	#4–4/0	0.232–0.575		3
AVID-10-40		1/0–400	1/0–336	0.368–0.741		
AVID-10-100		250–1000	300–795	0.567–1.150		3¼
AVID-10-150		556–1500	636–1272	0.856–1.412		3⅝
AVID-10-250		1100–2500	1113–2300	1.209–1.823		4
AVID-11B-25	1¾–12	#4–250	#4–4/0	0.232–0.575	2½	3
AVID-11B-40		1/0–400	1/0–336	0.368–0.741		
AVID-11B-100		250–1000	300–795	0.567–1.150		3¼
AVID-11B-150		556–1500	636–1272	0.856–1.412		3⅝
AVID-11B-250		1100–2500	1113–2300	1.209–1.823		4
AVID-13-25	2–12	#4–250	#4–4/0	0.232–0.575		3
AVID-13-40		1/0–400	1/0–336	0.368–0.741		
AVID-13-100		250–1000	300–795	0.567–1.150		3¼
AVID-13-150		556–1500	636–1272	0.856–1.412		3⅝
AVID-13-250		1100–2500	1113–2300	1.209–1.823		4

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

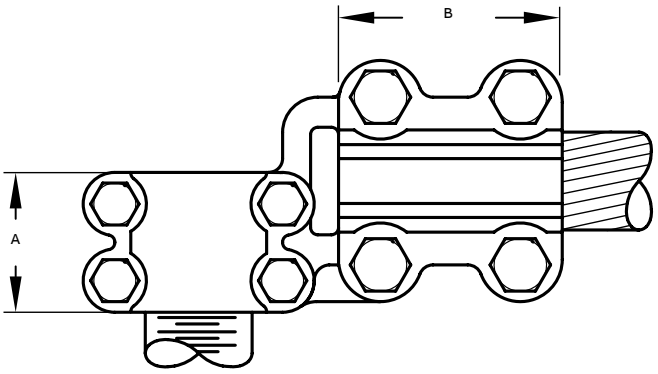
Type AVID-90 – Bolted stud, stud to cable at 90°

Type AVID-90 – Bolted stud, stud to cable at 90°

Cat. no.	Stud size (in.)	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
AVID-6-25-90	1⅛–12	#4–250	#4–4/0	0.232–0.575	2⅜	3
AVID-6-40-90		1/0–400	1/0–336	0.368–0.741		
AVID-6-100-90		250–1000	300–795	0.567–1.150		3¼
AVID-6-150-90		556–1500	636–1272	0.856–1.412		3⅝
AVID-6-250-90		1100–2500	1113–2300	1.209–1.823		4
AVID-8-25-90	1¼–12	#4–250	#4–4/0	0.232–0.575		3
AVID-8-40-90		1/0–400	1/0–336	0.368–0.741		
AVID-8-100-90		250–1000	300–795	0.567–1.150		3¼
AVID-8-150-90		556–1500	636–1272	0.856–1.412		3⅝
AVID-8-250-90		1100–2500	1113–2300	1.209–1.823		4
AVID-10-25-90	1½–12	#4–250	#4–4/0	0.232–0.575		3
AVID-10-40-90		1/0–400	1/0–336	0.368–0.741		
AVID-10-100-90		250–1000	300-795	0.567–1.150		3¼
AVID-10-150-90		556–1500	636–1272	0.856–1.412		3⅝
AVID-10-250-90		1100–2500	1113–2300	1.209–1.823		4
AVID-11B-25-90	1¾–12	#4–250	#4–4/0	0.232–0.575	2½	3
AVID-11B-40-90		1/0–400	1/0–336	0.368–0.741		
AVID-11B-100-90		250–1000	300–795	0.567–1.150		3¼
AVID-11B-150-90		556–1500	636–1272	0.856–1.412		3⅝
AVID-11B-250-90		1100–2500	1113–2300	1.209–1.823		4
AVID-13-25-90	2–12	#4–250	#4–4/0	0.232–0.575		3
AVID-13-40-90		1/0–400	1/0–336	0.368–0.741		
AVID-13-100-90		250–1000	300–795	0.567–1.150		3¼
AVID-13-150-90		556–1500	636–1272	0.856–1.412		3⅝
AVID-13-250-90		1100–2500	1113–2300	1.209–1.823		4

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted aluminum connectors

Type WVLS12 – Adjustable flexible-angle stud assembly, stud to pipe, welded

These flexible stud connectors are designed to be vertically adjustable within the limits 30° counterclockwise and 5° clockwise. This feature will accommodate the off-vertical angle common on circuit breaker bushings. The design also does not degrade phase spacing.

These connectors consist of two subassemblies: The tin-plated bronze stud connector and the one-piece aluminum subassembly. All holes exist in the stud connector. Only hole “A” exists in the aluminum part. Using bolt “A” as a pivot point, the angle is determined and holes “B” and “C” are drilled to fit.

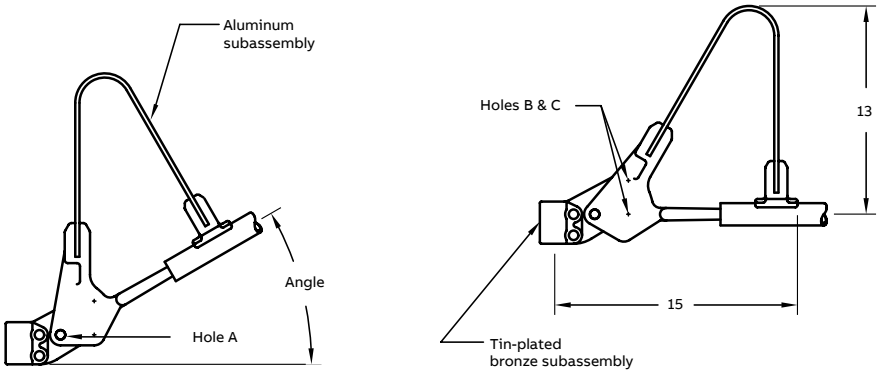
Type WVLS12 – Adjustable flexible-angle stud assembly, stud to pipe, welded

Cat. no.	Stud size (in.)	SPS (in.)	Amps
WVLS12-5A-F	1-12	1	650
WVLS12-5A-G		1¼	810
WVLS12-5A-H		1½	930
WVLS12-5A-J		2	1155
WVLS12-5A-K		2½	1200
WVLS12-5A-L		3	
WVLS12-6-F	1⅛–12	1	650
WVLS12-6-G		1¼	810
WVLS12-6-H		1½	930
WVLS12-6-J		2	1155
WVLS12-6-K		2½	1200
WVLS12-6-L		3	
WVLS12-8-F	1¼–12	1	650
WVLS12-8-G		1¼	810
WVLS12-8-H		1½	930
WVLS12-8-J		2	1155
WVLS12-8-K		2½	1200
WVLS12-8-L		3	

Cat. no.	Stud size (in.)	SPS (in.)	Amps
WVLS12-10-F	1½–12	1	650
WVLS12-10-G		1¼	810
WVLS12-10-H		1½	930
WVLS12-10-J		2	1155
WVLS12-10-K		2½	1200
WVLS12-10-L		3	
WVLS12-11B-F	1¾–12	1	650
WVLS12-11B-G		1¼	810
WVLS12-11B-H		1½	930
WVLS12-11B-J		2	1155
WVLS12-11B-K		2½	1200
WVLS12-11B-L		3	
WVLS12-13-F	2–12	1	650
WVLS12-13-G		1¼	810
WVLS12-13-H		1½	930
WVLS12-13-H		2	1155
WVLS12-13-K		2½	1200
WVLS12-13-L		3	

For schedule 80 pipe, add “H” to catalog number; e.g. WVLS12VLSH12-13-L.

Dimensions



Bolted aluminum connectors

Type WVLS20 – Adjustable flexible-angle stud assembly, stud to pipe, welded

These flexible stud connectors are designed to be vertically adjustable within the limits 75° counterclockwise and 90° clockwise. This feature will accommodate the off-vertical angle common on circuit breaker bushings. The design also does not degrade phase spacing.

These connectors consist of two subassemblies: The tin-plated bronze stud connector and the one-piece aluminum subassembly. All holes exist in the stud connector. Only hole “E” exists in the aluminum subassembly. Using bolt “E” as a pivot point, the angle is determined and holes “A” through “D” are drilled to fit.

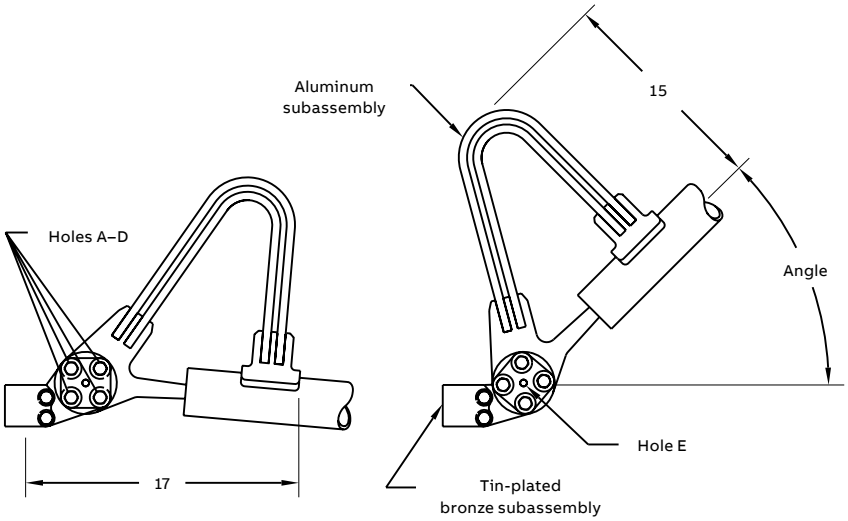
Caution: These devices can degrade tank clearances.

Type WVLS20 – Adjustable flexible-angle stud assembly, stud to pipe, welded

Cat. no.	Stud size (in.)	SPS (in.)	Amps
WVLS20-10-J	1½–12	2	1155
WVLS20-10-K		2½	1550
WVLS20-10-L		3	1895
WVLS20-11B-J	1¾–12	2	1155
WVLS20-11B-K		2½	1550
WVLS20-11B-L		3	1895
WVLS20-13-J	2–12	2	1155
WVLS20-13-K		2½	1550
WVLS20-13-L		3	1895

These devices can be made upside down and backwards; consult customer service.
For schedule 80 pipe, add “H” to catalog number; e.g. WVLSH20-13-L.

Dimensions



Bolted aluminum connectors

Type AVLS12 – Adjustable flexible-angle stud assembly, stud to pipe, bolted

These flexible stud connectors are designed to be vertically adjustable within the limits 30° counterclockwise and 5° clockwise. This feature will accommodate the off-vertical angle common on circuit breaker bushings. The design also does not degrade phase spacing.

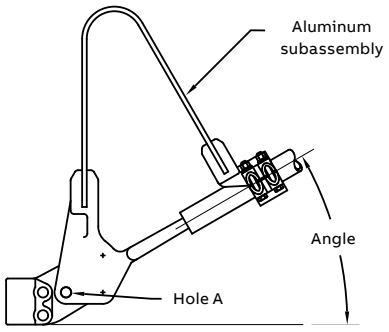
These connectors consist of two subassemblies: The tin-plated bronze stud connector and the aluminum subassembly. All holes exist in the stud connector. Only hole “A” exists in the aluminum part. Using bolt “A” as a pivot point, the angle is determined and holes “B” and “C” are drilled to fit.

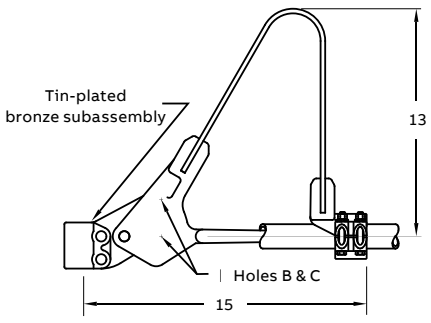
Type AVLS12 – Adjustable flexible-angle stud assembly, stud to pipe, bolted

Cat. no.	Stud size (in.)	SPS (in.)	Amps	Cat. no.	Stud size (in.)	SPS (in.)	Amps
AVLS12-5A-F	1–12	1	650	AVLS12-10-F	1½–12	1	650
AVLS12-5A-G		1¼	810	AVLS12-10-G		1¼	810
AVLS12-5A-H		1½	930	AVLS12-10-H		1½	930
AVLS12-5A-J		2	1155	AVLS12-10-J		2	1155
AVLS12-5A-K		2½	1200	AVLS12-10-K		2½	1200
AVLS12-5A-L		3		AVLS12-10-L		3	
AVLS12-6-F	1⅛–12	1	650	AVLS12-11B-F	1¾–12	1	650
AVLS12-6-G		1¼	810	AVLS12-11B-G		1¼	810
AVLS12-6-H		1½	930	AVLS12-11B-H		1½	930
AVLS12-6-J		2	1155	AVLS12-11B-J		2	1155
AVLS12-6-K		2½	1200	AVLS12-11B-K		2½	1200
AVLS12-6-L		3		AVLS12-11B-L		3	
AVLS12-8-F	1¼–12	1	650	AVLS12-13-F	2–12	1	650
AVLS12-8-G		1¼	810	AVLS12-13-G		1¼	810
AVLS12-8-H		1½	930	AVLS12-13-H		1½	930
AVLS12-8-J		2	1155	AVLS12-13-J		2	1155
AVLS12-8-K		2½	1200	AVLS12-13-K		2½	1200
AVLS12-8-L		3		AVLS12-13-L		3	

For schedule 80 pipe, add “H” to catalog number; e.g. AVLSH12-13-L.

Dimensions





Bolted aluminum connectors

Type AVLS20 – Adjustable flexible-angle stud assembly, stud to pipe, bolted

These flexible stud connectors are designed to be vertically adjustable within the limits 75° counterclockwise and 90° clockwise. This feature will accommodate the off-vertical angle common on circuit breaker bushings. The design also does not degrade phase spacing.

These connectors consist of two subassemblies: The tin-plated bronze stud connector and the one-piece aluminum subassembly. All holes exist in the stud connector. Only hole “E” exists in the aluminum subassembly. Using bolt “E” as a pivot point, the angle is determined and holes “A” through “D” are drilled to fit.

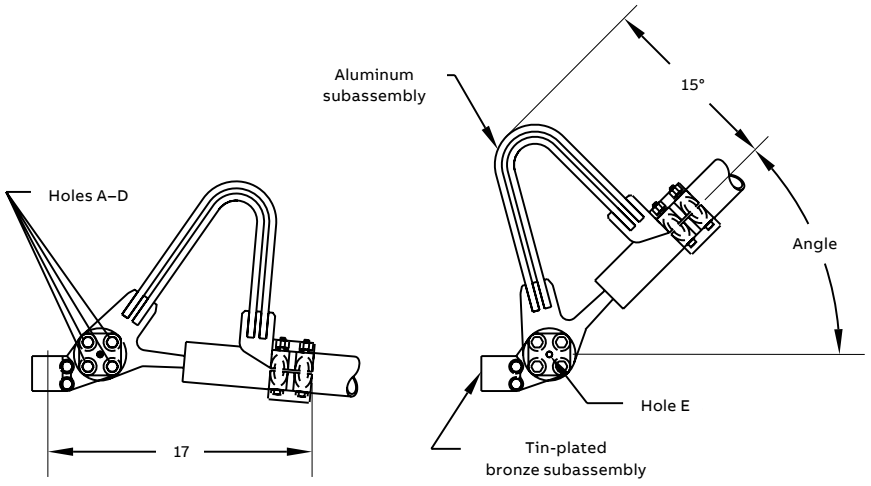
Caution: These devices can degrade tank clearances.

Type AVLS20 – Adjustable flexible-angle stud assembly, stud to pipe, bolted

Cat. no.	Stud size (in.)	SPS (in.)	Amps
AVLS20-10-J	1½–12	2	1155
AVLS20-10-K		2½	1590
AVLS20-10-L		3	1895
AVLS20-11B-J	1¾–12	2	1155
AVLS20-11B-K		2½	1590
AVLS20-11B-L		3	1895
AVLS20-13-J	2–12	2	1155
AVLS20-13-K		2½	1590
AVLS20-13-L		3	1895

These devices can be made upside down and backwards; consult customer service.
For schedule 80 pipe, add “H” to catalog number; e.g. AVLSH20-13-L.

Dimensions



Bolted aluminum connectors

Type ASPKG – Expansion stud, aluminum pipe to copper stud

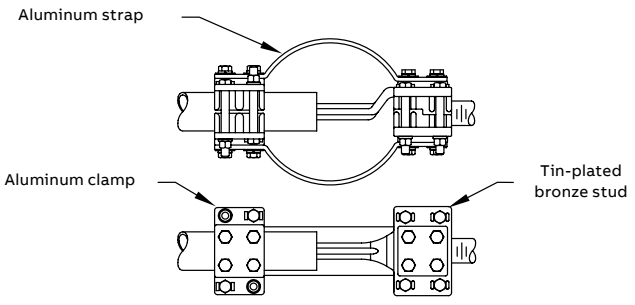
Stud size (in.)	Stud letter
1⅛–12	6
1¼–12	8
1½–12	10
1¾–12	11B
2–12	13
2½–12	13B
3–12	15

Pipe size (in.)	Pipe letter
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
For 90˚ take-off, add "90" to catalog number; e.g. ASPKG-15-G90.
For schedule 80, pipe add "H" to catalog number; e.g. ASPKGH-8-P.
Use chart GA-735 for installation; see technical reference page 174.

Catalog number will be designated from the following information:
ASPKG - (stud letter) - (pipe letter)
e.g.: ASPKG-8-P

Dimensions



Bolted aluminum connectors

Type AVLS – Flexible aluminum strap

Type AVLS – Flexible aluminum strap

Cat. no.	Fig.	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
AVLS1-300-2N	1	6	11¼	⅛	300
AVLS1-530-2N				¼	530
AVLS1-670-2N				⅜	670
3" 4-Hole NEMA flat					
AVLS1-420-4N	1	8	13¼	⅛	420
AVLS1-750-4N				¼	750
AVLS1-930-4N				⅜	930
4" 4-Hole NEMA flat					
AVLS1-530-4NN	1	8	13¼	⅛	530
AVLS1-960-4NN				¼	960
AVLS1-1170-4NN				⅜	1170
2-Hole NEMA flat					
AVLS2-300-2N	2	6	7⅝	⅛	300
AVLS2-530-2N				¼	530
AVLS2-670-2N				⅜	670
3" 4-Hole NEMA flat					
AVLS2-420-4N	2	8	8⅝	⅛	420
AVLS2-750-4N				¼	750
AVLS2-930-4N				⅜	930
4" 4-Hole NEMA flat					
AVLS2-530-4NN	2	8	8⅝	⅛	530
AVLS2-960-4NN				¼	960
AVLS2-1170-4NN				⅜	1170

Dimensions

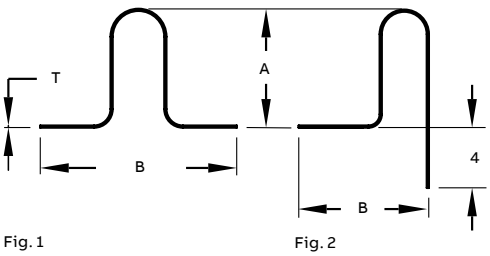
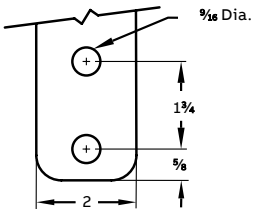
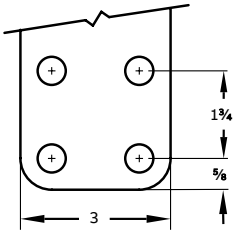


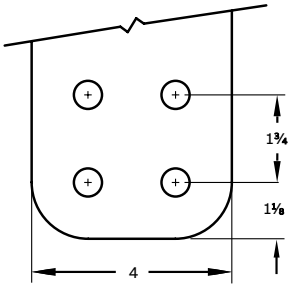
Fig. 1 Fig. 2



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted aluminum connectors

Type 7020 – Welded cable jumpers, flat to flat

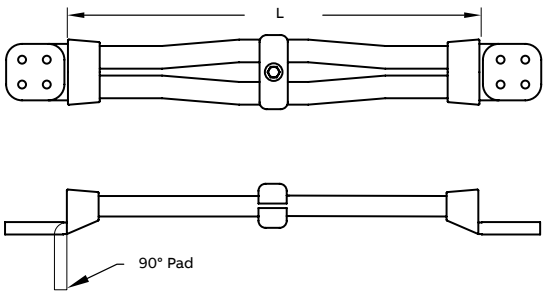
Catalog numbers formed as follows:

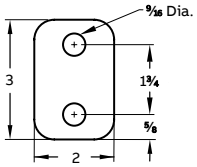
7020 – ☐ – ☐ – ☐ – ☐ – ☐

Number of cables (1272 ropelay)	Side 1 pad code	Side 2 pad code	Length of cable in inches	Weld code: Side 1 factory welded **W1** Both sides **W2** factory welded

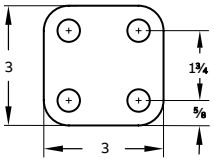
1272 ropelay ampacity (30 °C/40 °C) = 940 amps.
Cable spacers supplied if cable lengths are 48" or longer.

Dimensions

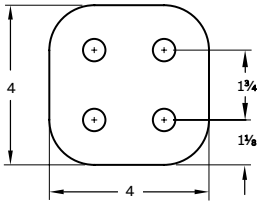




2-Hole NEMA flat pad code:
A = Straight
B = 90°



3" 4-Hole NEMA flat pad code:
C = Straight
B = 90°



4" 4-Hole NEMA flat pad code:
E = Straight
B = 90°

Bolted aluminum connectors

Type 7021 – Welded cable jumpers, flat to flat

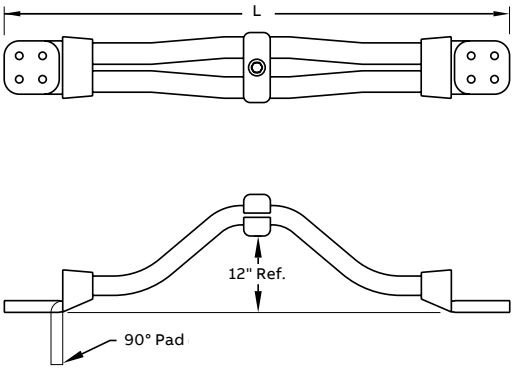
Catalog numbers formed as follows:

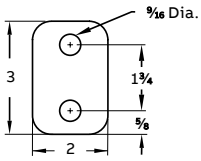
7021 – ☐ – ☐ – ☐ – ☐ – ☐

Number of cables (795 kcmil AAC)	Side 1 pad code	Side 2 pad code	Length of cable in inches	Weld code: Side 1 factory welded **W1** Both sides factory welded **W2**

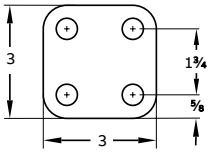
795 kcmil AAC ampacity (30 °C/40 °C) = 885 amps.
Cable spacers supplied if cable lengths are 48" or longer.

Dimensions

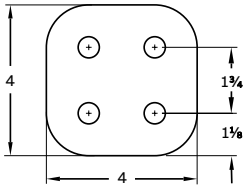




2-Hole NEMA flat pad code:
A = Straight
B = 90°



3" 4-Hole NEMA flat pad code:
C = Straight
B = 90°



4" 4-Hole NEMA flat pad code:
E = Straight
B = 90°

Bolted aluminum connectors

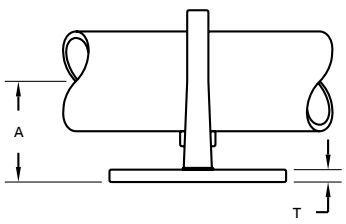
Type ATB – Slide bus support, pipe to insulator

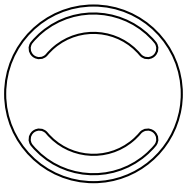
Type ATB – Slide bus support, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	T (in.)
3" Bolt circle			
ATB-E-3	¾	2	7/16
ATB-F-3	1		
ATB-G-3	1¼	2¼	
ATB-H-3	1½	2½	
ATB-J-3	2	2¾	
ATB-K-3	2½	3⅛	
ATB-L-3	3	3⅝	
ATB-M-3	3½	4	½
ATB-P-3	4	4½	
ATB-R-3	5	5	
ATB-S-3	6	5½	
5" Bolt circle			
ATB-E-5	¾	2¼	½
ATB-F-5	1		
ATB-G-5	1¼	2⅜	
ATB-H-5	1½	2½	
ATB-J-5	2	2¾	
ATB-K-5	2½	3⅛	
ATB-L-5	3	3⅝	
ATB-M-5	3½	4	
ATB-P-5	4	4½	
ATB-R-5	5	5	
ATB-S-5	6	5½	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator and stainless steel anti-chatter spring are supplied.

Dimensions





Slots: 3" BC 9/16
5" BC 11/16

Bolted aluminum connectors

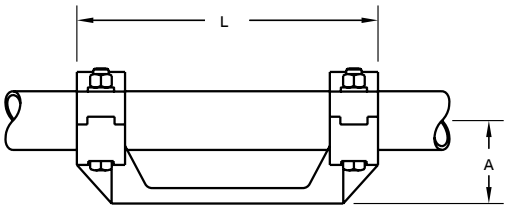
Type ASBC – Bolted bus support, pipe to insulator, clamp or slip fit

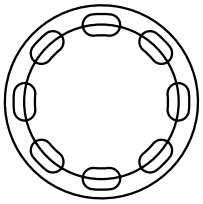
Type ASBC – Bolted bus support, pipe to insulator, clamp or slip fit

Cat. no.	SPS (in.)	A (in.)	L (in.)
3" Bolt circle			
ASBC-E-3	¾	2	8½
ASBC-F-3	1		
ASBC-G-3	1¼	2¼	
ASBC-H-3	1½	2½	
ASBC-J-3	2	2¾	
ASBC-K-3	2½	3⅛	
ASBC-L-3	3	3⅝	8
ASBC-M-3	3½	4	7⅝
ASBC-P-3	4	4½	8
ASBC-R-3	5	5	
ASBC-S-3	6	5½	
5" Bolt circle			
ASBC-E-5	¾	2¼	9¼
ASBC-F-5	1		
ASBC-G-5	1¼	2⅜	
ASBC-H-5	1½	2½	9½
ASBC-J-5	2	2¾	
ASBC-K-5	2½	3⅛	
ASBC-L-5	3	3⅝	10
ASBC-M-5	3½	4	
ASBC-P-5	4	4½	
ASBC-R-5	5	5	10½
ASBC-S-5	6	5½	11

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator and stainless steel anti-chatter spring are supplied.

Dimensions





Slots: 3" BC 9⁄16 x ¾
5" BC 1 1⁄16 x ⅞

Bolted aluminum connectors

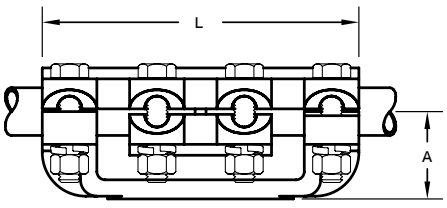
Type ASBCC – Bolted bus support coupler, pipe to insulator

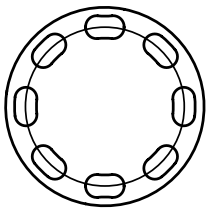
Type ASBCC – Bolted bus support coupler, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	T (in.)
3" Bolt circle			
ASBCC-E-3	¾	2	7½
ASBCC-F-3	1		
ASBCC-G-3	1¼	2¼	
ASBCC-H-3	1½	2½	
ASBCC-J-3	2	2¾	
ASBCC-K-3	2½	3⅛	
ASBCC-L-3	3	3⅝	8
ASBCC-M-3	3½	4	
ASBCC-P-3	4	4½	
ASBCC-R-3	5	5	
ASBCC-S-3	6	5½	
5" Bolt circle			
ASBCC-E-5	¾	2¼	9½
ASBCC-F-5	1		
ASBCC-G-5	1¼	2⅜	
ASBCC-H-5	1½	2½	
ASBCC-J-5	2	2¾	
ASBCC-K-5	2½	3⅛	
ASBCC-L-5	3	3⅝	10
ASBCC-M-5	3½	4	
ASBCC-P-5	4	4½	
ASBCC-R-5	5	5	
ASBCC-S-5	6	5½	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator and stainless steel anti-chatter spring are supplied.

Dimensions





Slots: 3" BC 9⁄16 x ¾
5" BC 1 1⁄16 x ⅞

Bolted aluminum connectors

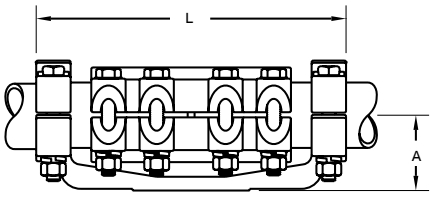
Type ASBCE – Slide bus support coupler, pipe to insulator

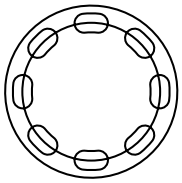
Type ASBCE – Slide bus support coupler, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	L (in.)
3" Bolt circle			
ASBCE-E-3	¾	2	11¼
ASBCE-F-3	1		
ASBCE-G-3	1¼	2¼	
ASBCE-H-3	1½	2½	
ASBCE-J-3	2	2¾	
ASBCE-K-3	2½	3⅛	
ASBCE-L-3	3	3⅝	12
ASBCE-M-3	3½	4	
ASBCE-P-3	4	4½	
ASBCE-R-3	5	5	13
ASBCE-S-3	6	5½	
5" Bolt circle			
ASBCE-E-5	¾	2¼	10¼
ASBCE-F-5	1		
ASBCE-G-5	1¼	2⅜	
ASBCE-H-5	1½	2½	
ASBCE-J-5	2	2¾	13¼
ASBCE-K-5	2½	3⅛	
ASBCE-L-5	3	3⅝	14½
ASBCE-M-5	3½	4	
ASBCE-P-5	4	4½	
ASBCE-R-5	5	5	
ASBCE-S-5	6	5½	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator and stainless steel anti-chatter spring are supplied.

Dimensions





Slots: 3" BC 9⁄16 x ¾
5" BC 11⁄16 x ⅞

Bolted aluminum connectors

Type AVBS and APPB

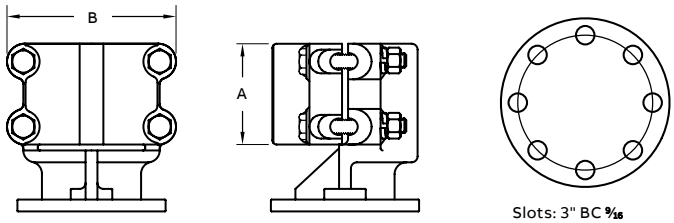
Type AVBS – Bolted vertical bus support, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	B (in.)
3" Bolt circle			
AVBS-E-3	¾	3	2⅞
AVBS-F-3	1		3⅜
AVBS-G-3	1¼		3¾
AVBS-H-3	1½		4
AVBS-J-3	2		4½
AVBS-K-3	2½		5
AVBS-L-3	3	3¾	6
AVBS-M-3	3½	4¼	6½
AVBS-P-3	4		7⅛
AVBS-R-3	5		8⁵⁄₁₆
AVBS-S-3	6		9⁵⁄₁₆

Cat. no.	SPS (in.)	A (in.)	B (in.)
5" Bolt circle			
AVBS-E-5	¾	3	2⅞
AVBS-F-5	1		3⅝
AVBS-G-5	1¼		3¾
AVBS-H-5	1½		4
AVBS-J-5	2		4½
AVBS-K-5	2½		5
AVBS-L-5	3	3¾	6
AVBS-M-5	3½	4¼	6½
AVBS-P-5	4		7⅛
AVBS-R-5	5		8⁵⁄₁₆
AVBS-S-5	6		9⁵⁄₁₆

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator is supplied.

Dimensions



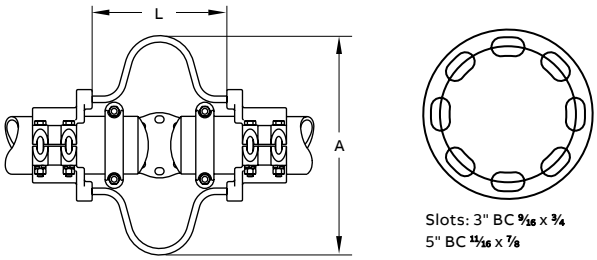
Type APPB – Bolted expansion bus support, pipe to insulator

Cat. no.	SPS (in.)	A (in.)
3" Bolt circle		
APPB-G-3	1¼	16
APPB-H-3	1½	
APPB-J-3	2	
APPB-K-3	2½	17
APPB-L-3	3	19
APPB-M-3	3½	
APPB-P-3	4	
APPB-R-3	5	21
APPB-S-3	6	

Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
APPB-F-5	1	16
APPB-G-5	1¼	
APPB-H-5	1½	
APPB-J-5	2	
APPB-K-5	2½	17
APPB-L-5	3	19
APPB-M-5	3½	
APPB-P-5	4	
APPB-R-5	5	21
APPB-S-5	6	

Use chart GA-796 for installation; see technical reference page 175.
For schedule 80 pipe, add "H" to catalog number; e.g. APPBH-G-3.
Connector bus height is in accordance with NEMA standard CC 1.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator, end caps and stainless steel anti-chatter springs are supplied.

Dimensions



Bolted aluminum connectors

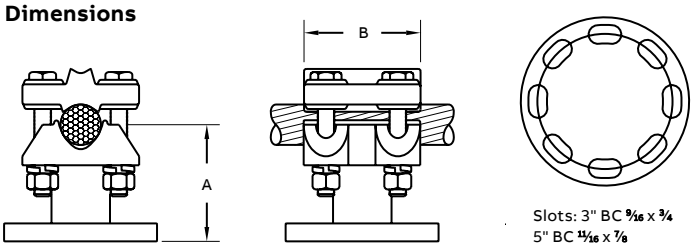
Type ASBD and ASBP

Type ASBD – Bolted bus support, cable to insulator

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable dia. min.–max. (in.)	A (in.)	B (in.)
3" Bolt circle					
ASBD-25-3	#4–250	#4–4/0	0.232–0.575	3	2 7/8
ASBD-40-3	1/0–400	1/0–336	0.368–0.741		
ASBD-100-3	250–1000	300–795	0.567–1.150	3 1/4	3 1/4
ASBD-175-3	4/0–1750	4/0–1590	0.522–1.545	3 1/2	3 1/2
ASBD-250-3	1100–2500	1133–2300	1.209–1.823		4
5" Bolt circle					
ASBD-40-5	1/0–400	1/0–336	0.368–0.741	3	2 7/8
ASBD-100-5	250–1000	300–795	0.567–1.150	3 1/4	3 1/4
ASBD-175-5	4/0–1750	4/0–1590	0.522–1.545	3 1/2	3 1/2
ASBD-250-5	1100–2500	1133–2300	1.209–1.823		4

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator is supplied.

Dimensions

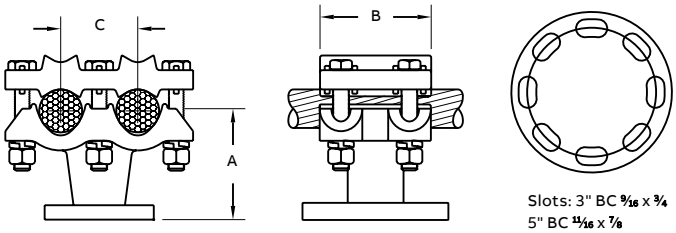


Type ASBP – Bolted bus support, two cables to insulator

Cat. no.	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable dia. min.–max. (in.)	A (in.)	B (in.)	C (in.)
3" Bolt circle						
ASBP-25-3	#4–250	#4–4/0	0.232–0.575	3	3	1
ASBP-40-3	1/0–400	1/0–336	0.368–0.741			1 3/4
ASBP-100-3	250–1000	300–795	0.567–1.150	3 5/16	3 1/4	2 1/8
ASBP-150-3	556–1500	636–1272	0.856–1.412	3 3/8	3 5/8	2 1/2
ASBP-250-3	1100–2500	1133–2300	1.209–1.823	3 9/16	4	3
5" Bolt circle						
ASBP-25-5	#4–250	#4–4/0	0.232–0.575	3	3	1
ASBP-40-5	1/0–400	1/0–336	0.368–0.741			1 3/4
ASBP-100-5	250–1000	300–795	0.567–1.150	3 5/16	3 1/4	2 1/8
ASBP-150-5	556–1500	636–1272	0.856–1.412	3 3/8	3 5/8	2 1/2
ASBP-250-5	1100–2500	1133–2300	1.209–1.823	3 9/16	4	3

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
Galvanized hardware for mounting to insulator is supplied.

Dimensions



Bolted aluminum connectors

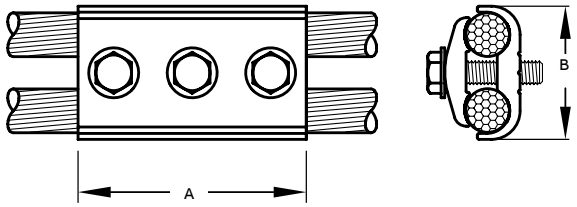
Type APP, SPAE and SPAC

Type APP – Parallel clamp, cable to cable

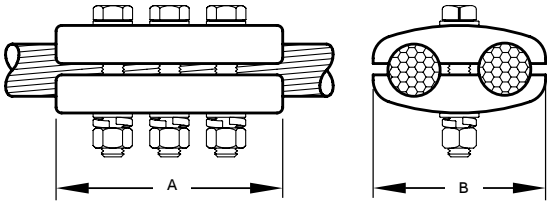
Cat. no.	Style	Qty. of bolts	Cable size AAC (AWG or kcmil)	Cable size ACSR (AWG or kcmil)	Cable dia. min.–max. (in.)	A (in.)	B (in.)
APP2-100-100	1	2	1/0–556.5	1/0–556.5	0.373–0.879	4	3½
APP3-100-100		3	or 336.4–1000	or 336.4–954	or 0.684–1.165	6	
APP3-143-143	2		1000–1431	874–1272	1.150–1.379		4¼
APP3-250-250*			1113–2500	1431–2300	1.216–1.823		5

* Same size conductor to be used in both grooves. Other sizes available; consult customer service. Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Style 1
Extrusion base tapped, nut not required

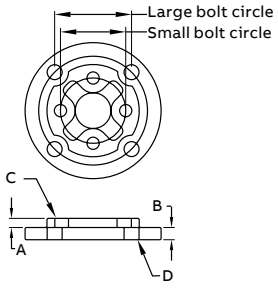


Style 2
Casting requires nut

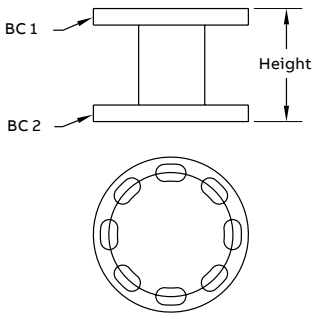
Type SPAE – Bolt circle adapter

Cat. no.	Small BC (in.)	Large BC (in.)	A (in.)	B (in.)	C (in.)	D (in.)
SPAE-35	3	5	⅜	9/16	9/16	11/16
SPAE-57	5	7	13/16	⅞	11/16	13/16

Dimensions



Type SPAC – Bolt circle height adapter



Catalog numbers to be formed as follows:
SPAC - (BC 1 & 2) - (HEIGHT)
e.g. SPAC-33-4-1/8
Slots:
3" BC 9/16 x ¾
5" BC 11/16 x ⅞
7" BC 13/16 x 1

Compression aluminum connectors

Type ACL – Compression terminals, cable to flat

Catalog numbers to be formed as follows:
ACL-(C)-(PAD STYLE)

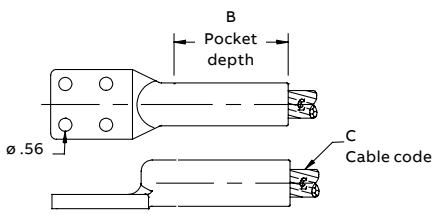
Examples of catalog numbers:
ACL-447-2N
ACL-684-4N
ACL-1299-4NN90

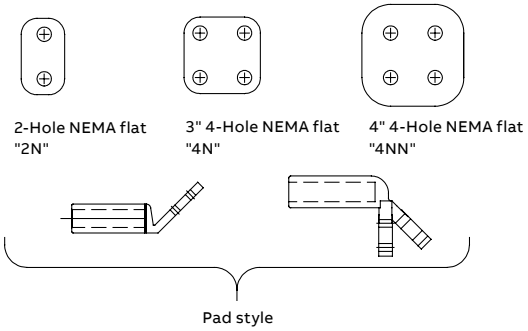
Notes:
1) All dimensions are in inches, dimensions for reference only.
2) Cable pocket coated with oxide inhibitor.
3) Illustration and dimensions are generally accurate; the actual design is subject to change.
4) For other sizes not listed, please consult customer service.
5) Angle connector may be obtained by adding desired angle to catalog number (45° and less up direction).

C	AAC (AWG or kcmil)	ACSR (AWG or kcmil)	B (in.)	Dies
292	#2 (7)	–	2.00	73AH 243
316	–	#2 (6/1)		
372	1/0 (7), (19)	–		
398	–	1/0 (6/1)	3.00	74AH 249
418	2/0 (7), (19)	–		
447	–	2/0 (6/1)		
470	3/0 (7), (19)	–		
527	4/0 (7). (19)	3/0 (6/1)		
563	–	4/0 (6/1)		
593	266.8 (7), (19)	–		76AH 316
630	300 (7), (19)	266.8 (18/1)		
646	–	266.8 (26/7) 300 (18/1)		
677	336.4 (19), (37)	266.8 (26/7) 336.4 (18/1)	4.00	
684	350 (19), (37)	300 (26/7) 336.4 (18/1)		20AH 317
736	397.5 (19) 400 (19), (37)	336.4 (30/7), (26/7) 397.5 (18/1), (36/1)		
795	477 (19), (37)	397.5 (26/7)	4.50	
814	500(19), (37)	477 (18/1), (36/1)		
858	550 (61) 556.5 (19), (37)	477 (26/7)	5.00	

C	AAC (AWG or kcmil)	ACSR (AWG or kcmil)	B (in.)	Dies
893	600 (61)	556.5 (18/1), (36/1)	5.00	24AH 261
930	636 (37), (61) 650 (61)	556.5 (26/7) 605 (36/1) 636 (18/1), (36/1)		
966	700 (61), (91)	605 (26/7), (54/7) 666.6 (36/1)		
990	—	636 (26/7) 715.5 (36/1)		
1000	750 (37), (61), (91)	762 (20/7) 666 (54/7)		
1036	795 (37), (61) 800 (61)	715.5 (54/7)		30AH 292
1051	–	715.5 (26/7) 795 (36/1)		
1063	–	795 (45/7)	6.00	
1108	874.5 (37), (61) 900 (61), (91)	795 (26/7), (54/7) 874.5 (36/1)		
1126	954 (37), (61)	900 (45/7)		
1171	1000 (61), (91) 1033.5 (37), (61)	900 (54/7) 954 (45/7)		
1216	1113 (61)	954 (54/7) 1033.5 (45/7)	7.00	34AH 575
1246	1192.5 (61)	1033.5 (54/7) 1113 (45/7)		
1299	1272 (61)	1113 (18/1), (54/19) 1192.5 (45/7)		38AH 478

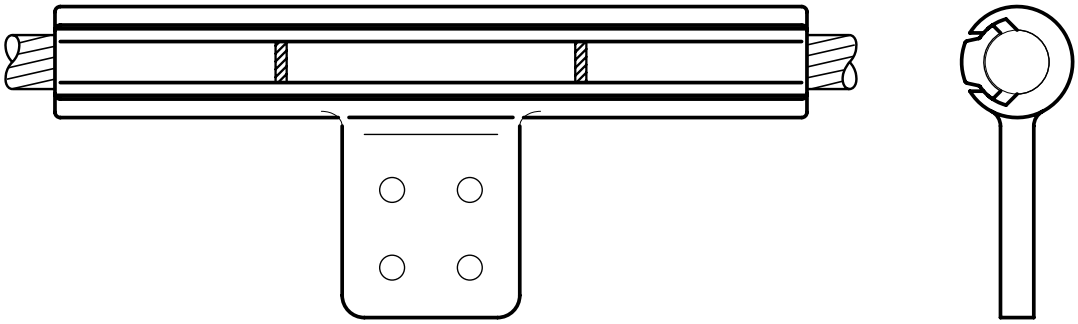
Dimensions



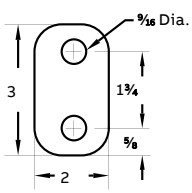


Compression aluminum connectors

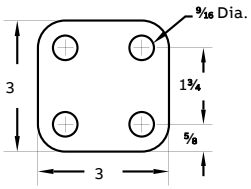
Type AYTF – Compression tee, cable to flat



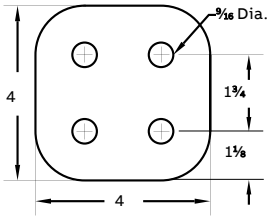
Dimensions



2-Hole NEMA flat
2N

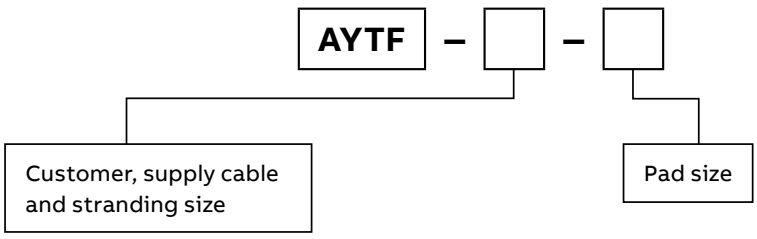


3" 4-Hole NEMA flat
4N



4" 4-Hole NEMA flat
4N

Catalog numbers will be designated from the following information:



All pads are finished on both sides.
Cable ranges and crimping dies marked on barrel.
Cable pocket coated with oxide inhibitor.
For other configurations, consult customer service.

Bolted bronze connectors

Quick reference – Tee connectors

01 Type KTH
See page 106

02 Type KTH-15 and KTH-15-15
See page 107

03 Type KBNT
See page 107

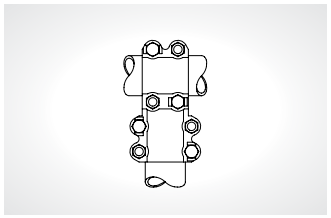
04 Type 6MT
See page 108

05 Type 6MT
See page 109

06 Type 6MK
See page 109

07 Type 7MT
See page 110

08 Type 7MK
See page 110



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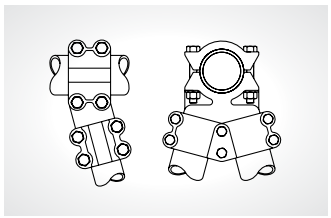

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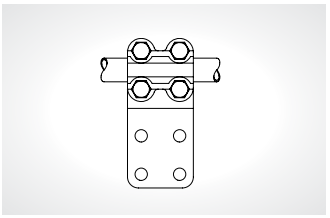

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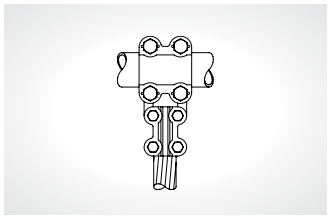

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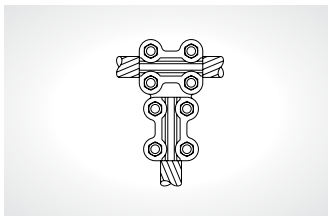

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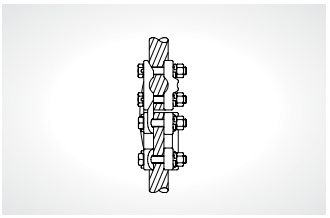

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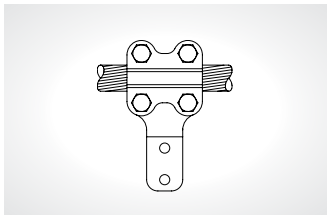

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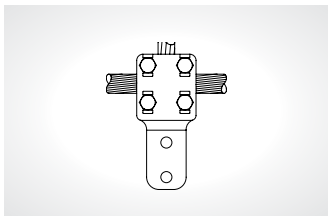


08

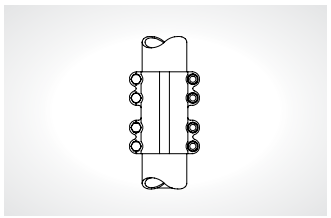
Quick reference – Couplers

01 Type KC
See page 111

02 Type KE-45 and 90
See page 111

03 Type KR
See page 112

04 Type VEX
See page 112



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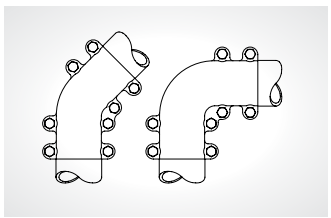

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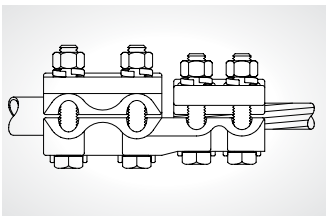

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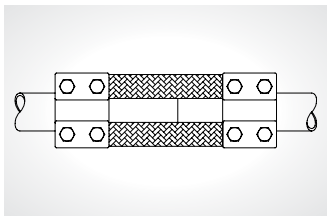


04

Bolted bronze connectors

Quick reference – Terminals

01 Type KL
See page 113

02 Type KL-45
See page 113

03 Type KL-90
See page 114

04 Type KLC
See page 114

05 Type VEZ
See page 115

06 Type 7ME and 7M See page 115

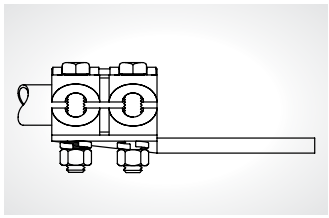
07 Type 7ME-45 and 7M-45
See page 116

08 Type 7ME-90 and 7M-90
See page 116

09 Type 7MM and 7MM1
See page 117

10 Type 7MM-90 and 7MM1-90
See page 118

01



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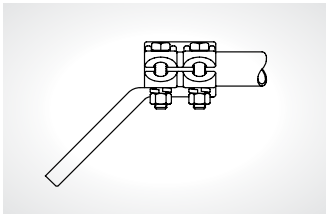

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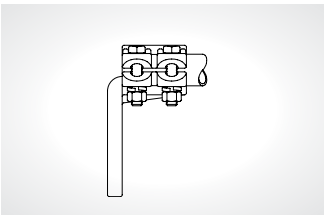

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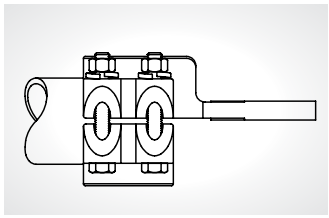

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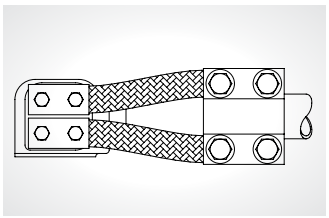

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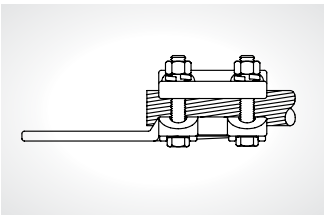

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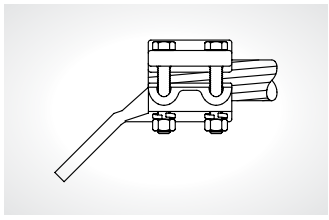

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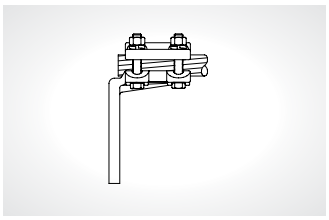

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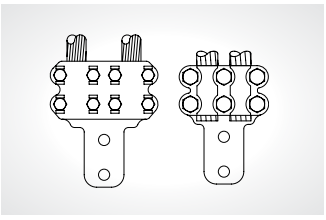

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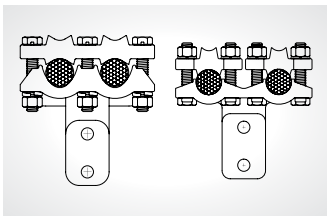


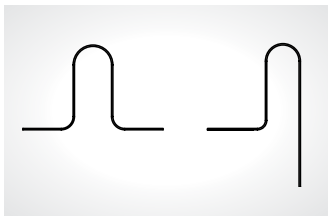
Quick reference – Flexible

01 Type VLS
See page 119

02 Type VGG
See page 120

03 Type FB
See page 120

01



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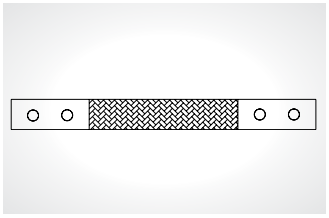

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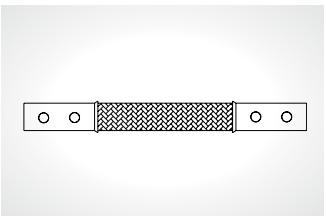


Bolted bronze connectors

Quick reference – Stud connectors

01 Type KSLC
See page 121

02 Type KSLF
See page 122

03 Type VIC
See page 123

04 Type VIC-90
See page 123

05 Type VID
See page 124

06 Type VID-90
See page 125

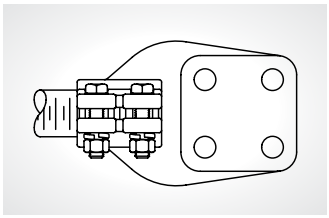
07 Type VIF
See page 126

08 Type VIF-90
See page 126

09 Type 5M
See page 127

10 Type 5M-2
See page 128

01



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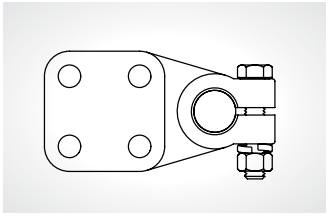

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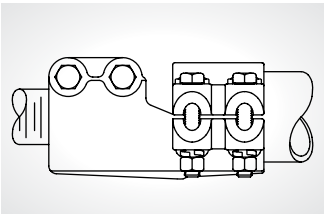

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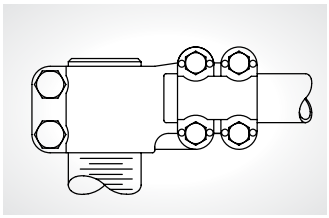

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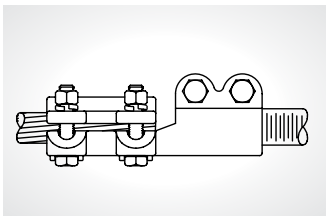

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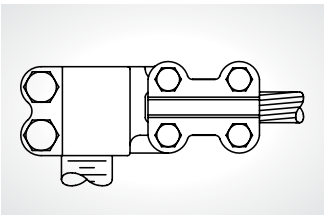

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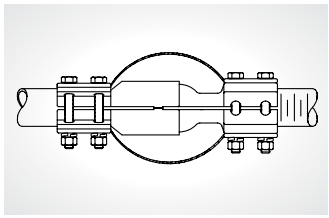

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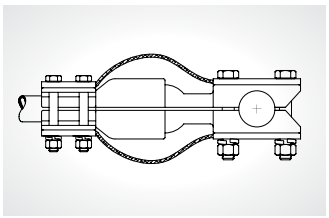

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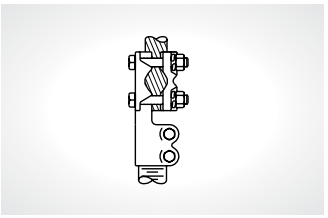

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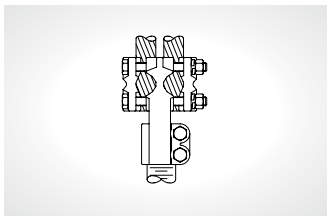


Quick reference – Supports

01 Type KTB
See page 129

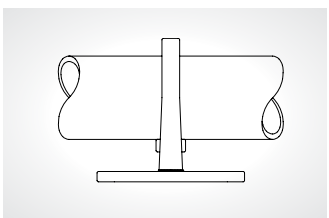
02 Type KSBE
See page 129

03 Type KVBS
See page 130

04 Type KSBD
See page 130

05 Type 8M
See page 131

01



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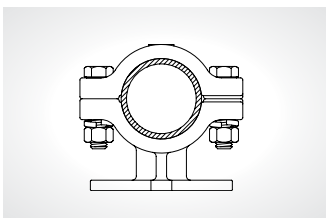

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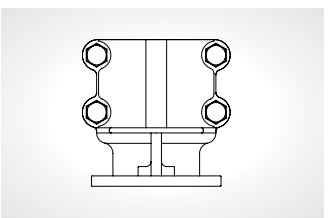

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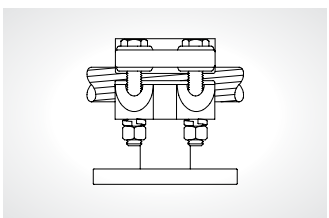

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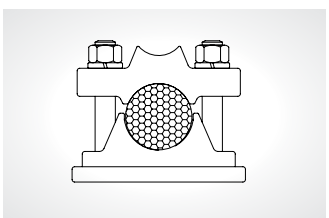


Bolted bronze connectors

Quick reference – Ground connectors

01 Type 2755
See page 132

02 Type 2752
See page 133

03 Type 2709T-1
See page 134

04 Type 2709T-2
See page 134

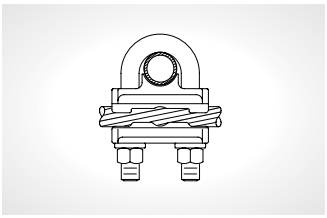
05 Type 2709-1
See page 134

06 Type 2709-2
See page 135

07 Type 2710-2
See page 135

08 Type NTB
See page 136

09 Type VGH
See page 136



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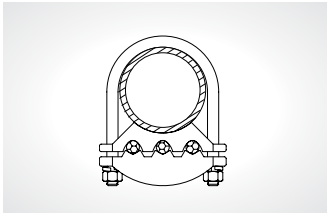

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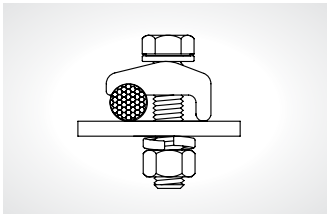
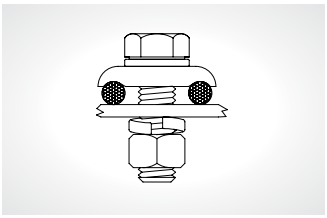


03



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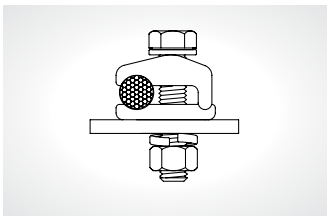

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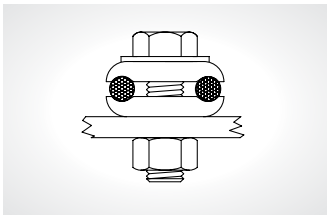

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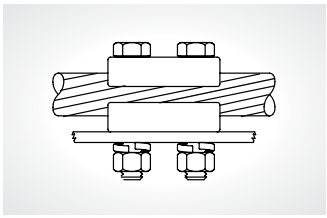

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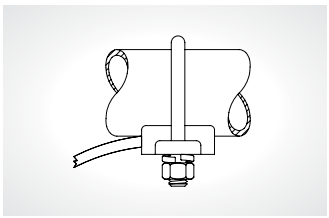

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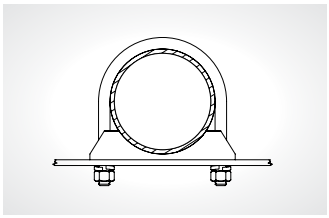


09

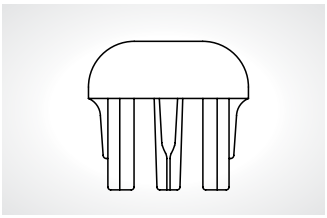
Quick reference – Miscellaneous

01 Type KFI
See page 106

02 Type VWU
See page 112

03 Type PT
See page 131

04 Transition plates
See page 136



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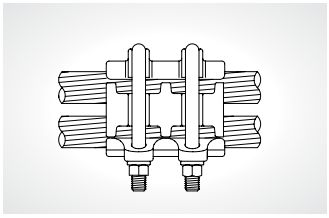

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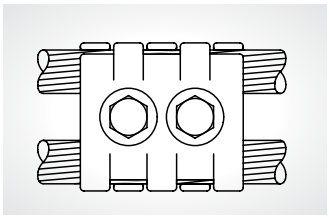

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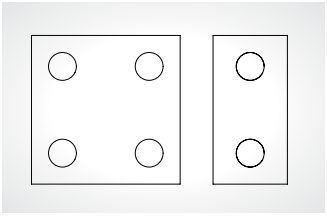
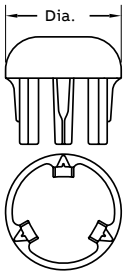


04

Bolted bronze connectors

Type KFI and KTH

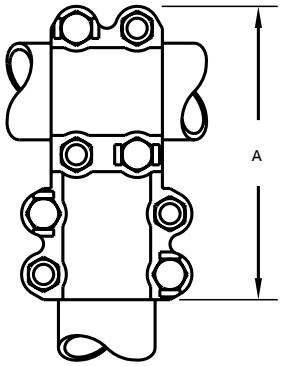
Type KFI – Corona bell, drive fit

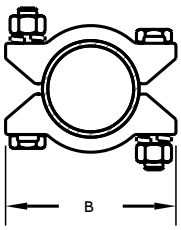


Cat. no.	SPS (in.)	Dia. (in.)
KFI-C	1/2	0.840
KFI-E	3/4	1.050
KFI-F	1	1.315
KFI-G	1 1/4	1.660
KFI-H	1 1/2	1.900
KFI-J	2	2.375
KFI-K	2 1/2	2.875
KFI-L	3	3.500
KFI-M	3 1/2	4.000
KFI-P	4	4.500

For schedule 80 pipe, add "H" to catalog number; e.g. KFIH-J.

Type KTH – Tee connector, pipe run to pipe tap





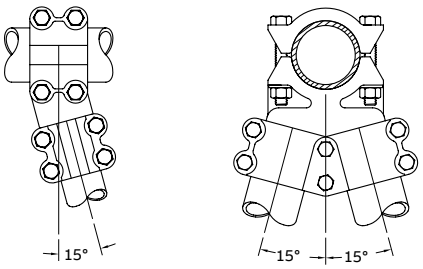
Cat. no.	SPS run (in.)	SPS tap (in.)	A (in.)	B (in.)
KTH-E-C	3/4	1/2	4 1/4	2 3/16
KTH-E-E		3/4	5 11/16	3 3/8
KTH-F-E	1	3/4	7 3/8	3 3/16
KTH-F-F		1	4 9/16	2 13/16
KTH-G-E	1 1/4	3/4	5 3/16	2 9/16
KTH-G-F		1	5 7/8	2 13/16
KTH-G-G		1 1/4	5 13/16	2 7/16
KTH-H-E	1 1/2	3/4	5 1/16	2 9/16
KTH-H-F		1	6 1/8	3 1/8
KTH-H-G		1 1/4	6 1/2	3 9/16
KTH-H-H		1 1/2	6 9/16	3 3/4
KTH-J-E	2	3/4	5 11/16	2 9/16
KTH-J-F		1	7 7/16	3
KTH-J-G		1 1/4	6 7/16	3 9/16
KTH-J-H		1 1/2	6 7/8	4
KTH-J-J		2	7 1/4	4 1/4
KTH-K-G	2 1/2	1 1/4	7 7/16	3 9/16
KTH-K-H		1 1/2		3 3/4
KTH-K-J		2	8 9/16	4 1/2
KTH-K-K		2 1/2	8	4 3/4
KTH-L-H	3	1 1/2	8 5/16	3 3/4
KTH-L-J		2	8 3/16	4 1/4
KTH-L-K		2 1/2	8	
KTH-L-L		3		
KTH-M-H	3 1/2	1 1/2	8 1/4	3
KTH-M-J		2	8 3/4	3 5/8
KTH-M-K		2 1/2	10 5/8	5 1/4
KTH-M-L		3	10 7/8	5 1/8
KTH-M-M		3 1/2	11 1/2	6 5/8
KTH-P-J	4	2	10 13/16	4 3/4
KTH-P-K		2 1/2		
KTH-P-L		3	11 1/4	5 1/2
KTH-P-M		3 1/2		
KTH-P-P		4		

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Bolted bronze connectors

Type KTH-15, KTH-15-15 & KBNT

Type KTH-15 and KTH-15-15 – Tee connector, pipe run to pipe tap at 15˚

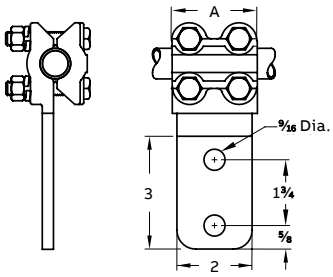


Pipe size sch. 40 or 80 (in.)	Letter
1	F
1¼	G
1½	H
2	J
2½	K
3	L
3½	M
4	P
5	R
6	S

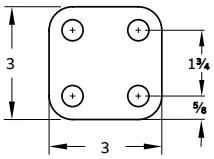
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
For other configurations, consult customer service.

Catalog numbers will be designated from the following information:
KTH- (pipe run) - (pipe tap)
e.g.: "KTH-J-J15" (one leg at 15°)
"KTH-J-J2-15" (two legs at 15°)

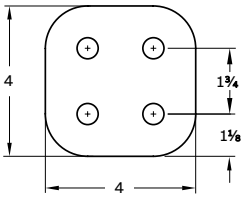
Type KBNT – Tee connector, pipe to flat



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Cat. no.	SPS (in.)	A (in.)
2-Hole NEMA flat		
KBNT-C-2N	½	2⅜
KBNT-E-2N	¾	2 3/16
KBNT-F-2N	1	2
KBNT-G-2N	1¼	4
KBNT-H-2N	1½	3
KBNT-J-2N	2	
3" 4-Hole NEMA flat		
KBNT-C-4N	½	2 3/16
KBNT-E-4N	¾	2¼
KBNT-F-4N	1	2 11/16
KBNT-G-4N	1¼	2 15/16
KBNT-H-4N	1½	3 13/16
KBNT-J-4N	2	2¾
KBNT-K-4N	2½	3
KBNT-L-4N	3	5
KBNT-M-4N	3½	3¾
4" 4-Hole NEMA flat		
KBNT-C-4NN	½	2⅜
KBNT-E-4NN	¾	3
KBNT-F-4NN	1	2⅜
KBNT-G-4NN	1¼	
KBNT-H-4NN	1½	2¾
KBNT-J-4NN	2	
KBNT-K-4NN	2½	3
KBNT-L-4NN	3	3¾
KBNT-M-4NN	3½	4¼
KBNT-P-4NN	4	4

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Bolted bronze connectors

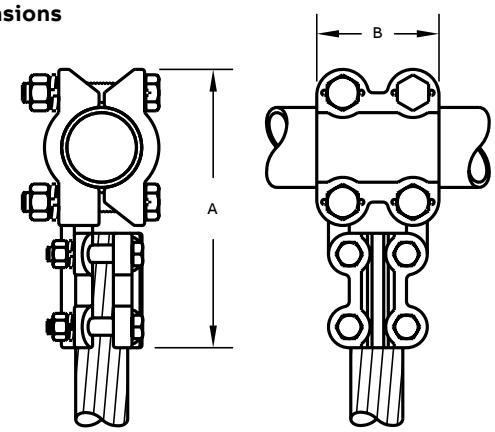
Type 6MT – Tee connector, pipe to cable

Type 6MT – Tee connector, pipe to cable

Cat. no.	Run SPS (in.)	Tap cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
6MT-C-60E3*	1/2	#4–600	0.232–0.893	5 1/4	2 3/4
6MT-E-60E3*	3/4	#4–600	0.232–0.893	5 1/2	2 3/16
6MT-E-60				5 3/4	3
6MT-E-100		4/0–1000	0.528–1.152		
6MT-F-60E3*	1	#4–600	0.232–0.893	5 3/4	
6MT-F-100		4/0–1000	0.528–1.152		
6MT-G-60	1 1/4	#4–600	0.232–0.893	6 7/16	
6MT-G-100		4/0–1000	0.528–1.152	6 3/4	
6MT-G-150		600–1500	0.893–1.412		
6MT-H-60	1 1/2	#4–600	0.232–0.893	6 3/4	
6MT-H-100		4/0–1000	0.528–1.152	7	
6MT-H-150		600–1500	0.893–1.412		
6MT-J-60	2	#4–600	0.232–0.893	8	
6MT-J-100		4/0–1000	0.528–1.152		
6MT-J-150		600–1500	0.893–1.432		
6MT-J-200		1500–2000	1.412–1.632		
6MT-K-60	2 1/2	#4–600	0.232–0.893	7 9/16	2 3/16
6MT-K-100		4/0–1000	0.528–1.152		
6MT-K-150		600–1500	0.893–1.432		
6MT-K-200		1500–2000	1.412–1.632		
6MT-L-60	3	#4–600	0.232–0.893	9	3 7/8
6MT-L-100		4/0–1000	0.528–1.152	10	3 3/4
6MT-L-150		600–1500	0.893–1.432		
6MT-L-200		1500–2000	1.412–1.632		
6MT-M-60	3 1/2	#4–600	0.232–0.893	9 3/16	3
6MT-M-100		4/0–1000	0.528–1.152		
6MT-M-150		600–1500	0.893–1.432		
6MT-M-200		1500–2000	1.412–1.632		
6MT-P-100	4	4/0–1000	0.528–1.152	10 1/4	3 1/2
6MT-P-150		600–1500	0.893–1.432	10 1/2	3 3/4
6MT-P-200		1500–2000	1.412–1.632	10 3/4	4

* 3/8" clamping hardware.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted bronze connectors

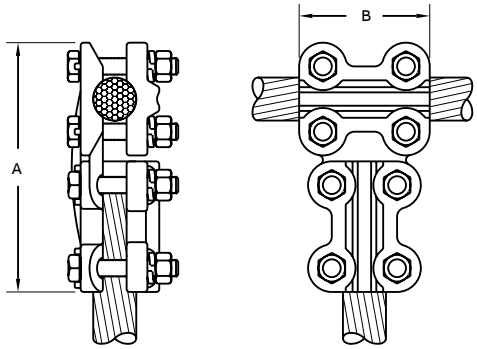
Type 6MT and 6MK

Type 6MT – Tee connector, cable to cable

	Cable size		Cable diameter			
Cat. no.	Run (AWG or kcmil)	Tap (AWG or kcmil)	Run min.–max. (in.)	Tap min.–max. (in.)	A (in.)	B (in.)
6MT-4/0-4/0E3	#8–4/0	#8–4/0	0.129–0.526	0.129–0.526	5 1/4	2 3/4
6MT-50-50	1/0–500	1/0–500	0.368–0.811	0.368–0.811		
6MT-60-60E3	#4–600	#4–600	0.232–0.893	0.232–0.893		
6MT-100-50	4/0–1000	1/0–500	0.526–1.152	0.368–0.811	5 7/8	2 5/8
6MT-100-100	4/0–1000	4/0–1000	0.526–1.152	0.526–1.152		
6MT-125-60	900–1250	#4–600	1.094–1.289	0.232–0.893	5 3/4	3
6MT-200-60	1500–2000	#4–600	1.413–1.631	0.232–0.893	7	3 1/2

Connectors supplied with 1/2" clamping hardware except for the E3, which are 3/8" size.

Dimensions

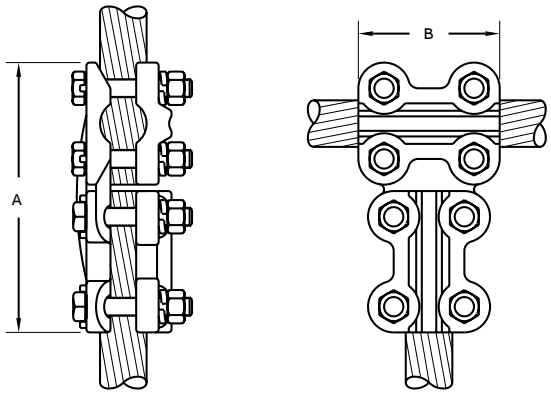


Type 6MK – Universal tee/coupler, cable or pipe to cable or pipe

	Cable size		Cable diameter		Pipe			
Cat. no.	Run (AWG or kcmil)	Tap (AWG or kcmil)	Run min. max. (in.)	Tap min.–max. (in.)	Run (in.)	Tap (in.)	A (in.)	B (in.)
6MK-80-80E3	#12–800	#12–800	0.092–1.030	0.092–1.030	1/2–3/4	1/2–3/4	5 3/4	2 3/4
6MK-200-200	500–2000	500–2000	0.811–1.631	0.811–1.631	3/4–1 1/4	3/4–1 1/4	7 3/8	4

This Type 6MK universal connector can be used as a tee or coupler.
It will accommodate a wide range of cable just by turning the cap.
It will also accommodate pipe.
Connectors supplied with 1/2" clamping hardware except for the E3, which are 3/8" size.

Dimensions



Bolted bronze connectors

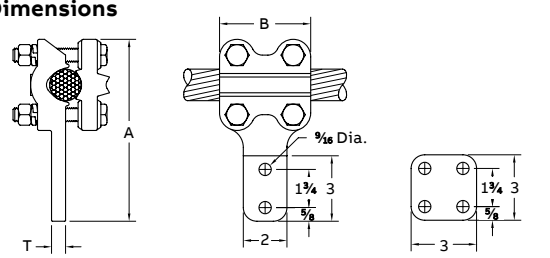
Type 7MT and 7MK

Type 7MT – Tee connector, cable to flat

Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat					
7MT-60-2N	#4–600	0.232–0.893	5 1/2	2 3/4	3/8
7MT-100-2N	750–1000	0.998–1.152	7 1/8	3	
7MT-150-2N	600–1500	0.893–1.412	7	3 5/8	1/2
3" 4-Hole NEMA flat					
7MT-60-4N	#4–600	0.232–0.893	5 1/2	2 3/4	3/8
7MT-100-4N	750–1000	0.998–1.152	6 3/16	2 7/8	7/16
7MT-150-4N	600–1500	0.893–1.412	6 3/4	3 5/8	1/2

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1. All pads are finished on both sides.

Dimensions



2-Hole NEMA flat

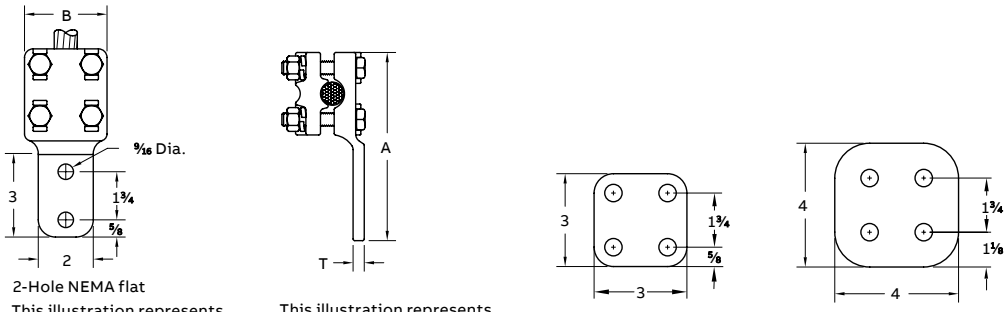
3" 4-Hole NEMA flat

Type 7MK – Universal tee/terminal, cable to flat

Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	SPS (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat						
7MK-80-2N	#2–800	0.292–1.031	3/8–3/4	5 7/8	3	3/8
7MK-200-2N	4/0–2000	0.522–1.632	3/8–1 1/4		3 3/8	
3" 4-Hole NEMA flat						
7MK-80-4N	#2–800	0.292–1.031	3/8–3/4	6 7/8	3	3/8
7MK-200-4N	4/0–2000	0.522–1.632	3/8–1 1/4	7	3 3/8	9/16
4" 4-Hole NEMA flat						
7MK-80-4NN	#2–800	0.292–1.031	3/8–3/4	8	4	9/16
7MK-200-4NN	4/0–2000	0.522–1.632	3/8–1 1/4			

This Type 7MK universal connector can be used as a tee or terminal. It will accommodate a wide range of cable just by turning the cap. Connectors supplied with clamping hardware in accordance with NEMA standard CC 1. All pads are finished on both sides.

Dimensions



2-Hole NEMA flat
This illustration represents a terminal type configuration.

This illustration represents a tee type configuration.

3" 4-Hole NEMA flat

4" 4-Hole NEMA flat

Bolted bronze connectors

Type KC and KE

Type KC – Coupler/reducer, pipe to pipe

Cat. no.	Run SPS (in.)	Tap SPS (in.)	L (in.)
KC-C	1/2	1/2	3 3/8
KC-E	3/4	3/4	4 7/8
KC-F-E	1	3/4	4 7/8
KC-F		1	5 1/8
KC-G-E	1 1/4	3/4	5 3/4
KC-G-F		1	
KC-G		1 1/4	
KC-H-E	1 1/2	3/4	7 5/8
KC-H-F		1	5
KC-H-G		1 1/4	6 5/8
KC-H		1 1/2	
KC-J-E	2	3/4	6
KC-J-F		1	
KC-J-G		1 1/4	7 1/4
KC-J-H		1 1/2	6
KC-J		2	
KC-K-E	2 1/2	3/4	5 3/8
KC-K-F		1	5 1/2
KC-K-G		1 1/4	
KC-K-H		1 1/2	6
KC-K-J		2	7 3/4
KC-K		2 1/2	
KC-L-E	3	3/4	7
KC-L-F		1	
KC-L-G		1 1/4	7 3/4
KC-L-H		1 1/2	
KC-L-J		2	8 1/2
KC-L-K		2 1/2	7 3/4
KC-L		3	6 5/8
KC-M-F	3 1/2	1	6 1/2
KC-M-G		1 1/4	
KC-M-H		1 1/2	
KC-M-J		2	
KC-M-K		2 1/2	
KC-M-L		3	7 1/4
KC-M		3 1/2	
KC-P-G	4	1 1/4	8
KC-P-H		1 1/2	
KC-P-J		2	8 1/4
KC-P-K		2 1/2	8
KC-P-L		3	9 1/4
KC-P-M		3 1/2	
KC-P		4	10

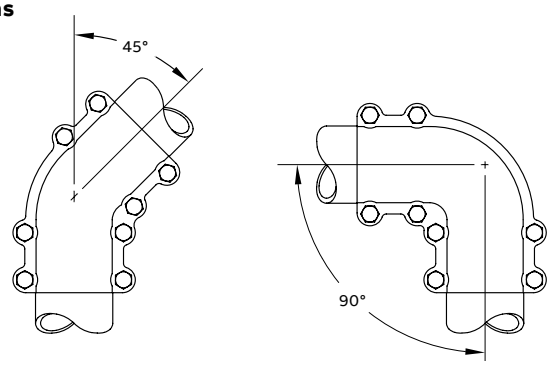
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type KE – Elbow, pipe to pipe

Cat. no.			Cat. no.		
45°	90°	Run & tap SPS (in.)	45°	90°	Run & tap SPS (in.)
KE-C-45	KE-C-90	1/2	KE-J-45	KE-J-90	2
KE-E-45	KE-E-90	3/4	KE-K-45	KE-K-90	2 1/2
KE-F-45	KE-F-90	1	KE-L-45	KE-L-90	3
KE-G-45	KE-G-90	1 1/4	KE-M-45	KE-M-90	3 1/2
KE-H-45	KE-H-90	1 1/2	KE-P-45	KE-P-90	4

For other configurations, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted bronze connectors

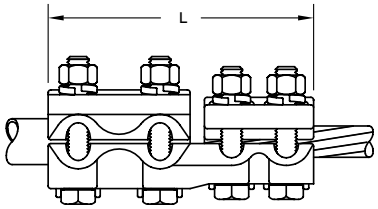
Type KR, VEX and VWU

Type KR – Coupler, pipe to cable

Cat. no.	Run SPS (in.)	Cable Size (AWG or kcmil)	Cable min.–max. (in.)	L (in.)
KR-E-60	3/4	#4–600	0.232–0.893	5 1/2
KR-F-60	1	#4–600	0.232–0.893	5 3/4
KR-F-80		250–800	0.574–1.030	6 3/4
KR-G-60	1 1/4	#4–600	0.232–0.893	6 3/8
KR-G-100		4/0–1000	0.522–1.152	4 7/8
KR-H-60	1 1/2	#4–600	0.232–0.893	6 3/8
KR-H-100		4/0–1000	0.522–1.152	5 3/4
KR-H-125		900–1250	1.094–1.290	6 3/8
KR-J-60	2	#4–600	0.232–0.893	6 3/8
KR-J-100		4/0–1000	0.522–1.152	6 5/8
KR-J-125		900–1250	1.094–1.290	
KR-K-60	2 1/2	#4–600	0.232–0.893	
KR-K-100		4/0–1000	0.522–1.152	
KR-K-125		900–1250	1.094–1.290	
KR-L-60	3	#4–600	0.232–0.893	
KR-L-100		4/0–1000	0.522–1.152	
KR-L-125		900–1250	1.094–1.290	

Other sizes available, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions

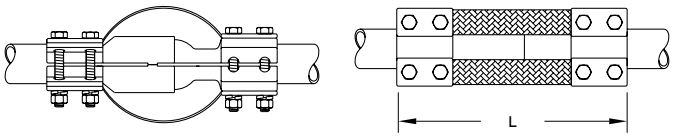


Type VEX – Braid expansion coupler, pipe to pipe

Cat. no.	SPS (in.)	L (in.)
VEX-E	3/4	10 1/2
VEX-F	1	
VEX-G	1 1/4	12
VEX-H	1 1/2	
VEX-J	2	
VEX-K	2 1/2	12 1/2
VEX-L	3	
VEX-M	3 1/2	13
VEX-P	4	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions

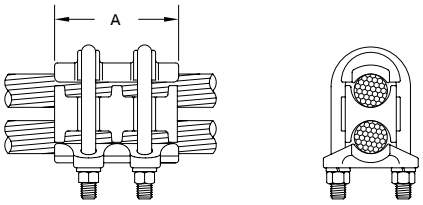


Type VWU – U-bolt parallel clamp, cable to cable

Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)
VWU2-2/0-2	#2–2/0	0.258–0.419	2 1/2
VWU2-4/0-1	#1–4/0	0.332–0.528	2 3/4
VWU2-30-1/0	1/0–300	0.373–0.630	3 1/4
VWU2-50-4/0	4/0–500	0.528–0.813	3 1/4
VWU2-75-30	300–750	0.630–0.998	3 3/4
VWU2-100-50	500–1000	0.813–1.152	4

Other sizes available, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted bronze connectors

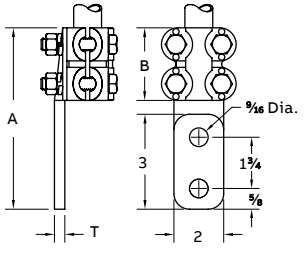
Type KL and Type KL-45

Type KL – Terminal, pipe to flat

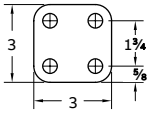
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat				
KL-C3-2N*	1/2	6	2 3/16	1/4
KL-E3-2N*	3/4			1/2
KL-E-2N				
KL-F3-2N*	1			
KL-F-2N		7	3	
KL-G-2N	1 1/4			
KL-H-2N	1 1/2			5/8
KL-J-2N	2			
KL-K-2N	2 1/2			
KL-L-2N	3		4	
3" 4-Hole NEMA flat				
KL-C3-4N*	1/2	6	2 3/16	3/8
KL-E3-4N*	3/4			1/2
KL-E-4N				
KL-F3-4N*	1			
KL-F-4N		7	3	
KL-G-4N	1 1/4			5/8
KL-H-4N	1 1/2			
KL-J-4N	2			
KL-K-4N	2 1/2			
KL-L-4N	3			
KL-M-4N	3 1/2	8	4 1/8	7/8
KL-P-4N	4	10	5	1 1/8
4" 4-Hole NEMA flat				
KL-H-4NN	1 1/2	6 3/4	3	5/8
KL-J-4NN	2			
KL-K-4NN	2 1/2	7 1/2		1/2
KL-L-4NN	3		3 7/16	
KL-M-4NN	3 1/2	8	4 1/4	3/4
KL-P-4NN	4	10	4 1/2	1 1/8

* 3/8" clamping hardware. Connectors supplied with clamping hardware in accordance with NEMA standard CC 1. All pads are finished on both sides.

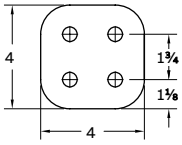
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



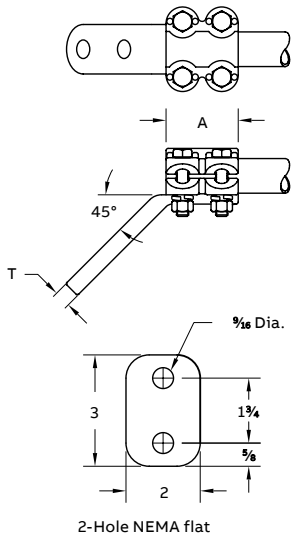
4" 4-Hole NEMA flat

Type KL-45 – Terminal, pipe to flat at 45°

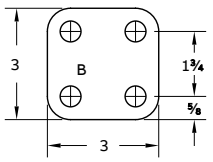
Cat. no.	SPS (in.)	A (in.)	T (in.)
2-Hole NEMA flat			
KL-C3-2N45*	1/2	2 1/2	1/4
KL-E3-2N45*	3/4	2 3/16	1/2
KL-E-2N45			
KL-F3-2N45*	1		
KL-F-2N45		3	
KL-G-2N45	1 1/4		
KL-H-2N45	1 1/2		5/8
KL-J-2N45	2		
3" 4-Hole NEMA flat			
KL-C3-4N45*	1/2	2 1/2	1/2
KL-E3-4N45*	3/4	2 3/16	
KL-E-4N45			
KL-F3-4N45*	1	3	
KL-F-4N45			
KL-G-4N45	1 1/4		5/8
KL-H-4N45	1 1/2		3/4
KL-J-4N45	2		
KL-K-4N45	2 1/2		
KL-L-4N45	3	3 3/4	
4" 4-Hole NEMA flat			
KL-J-4NN45	2	3	3/4
KL-K-4NN45	2 1/2		
KL-L-4NN45	3	3 3/4	
KL-M-4NN45	3 1/2	4 1/8	1
KL-P-4NN45	4	4 3/4	1 1/8

* 3/8" clamping hardware. Connectors supplied with clamping hardware in accordance with NEMA standard CC 1. All pads are finished on both sides.

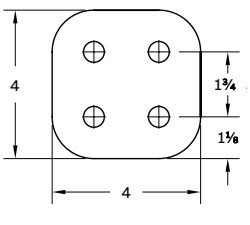
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted bronze connectors

Type KL-90 and Type KLC

Type KL-90 – Terminal, pipe to flat at 90°

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat				
KL-C3-2N90*	1/2	4 3/8	2 3/16	1/2
KL-E3-2N90*	3/4			
KL-E-2N90			3 1/4	
KL-F3-2N90*	1	4 3/4	2 3/16	
KL-F-2N90		4 5/8	3	
KL-G-2N90	1 1/4	4 3/4		5/8
KL-H-2N90	1 1/2	5		9/16
KL-J-2N90	2	6 1/4	4	
3" 4-Hole NEMA flat				
KL-C3-4N90*	1/2	4 3/16	2 5/8	3/8
KL-E3-4N90*	3/4	4 1/2	2 3/16	1/2
KL-E-4N90				
KL-F3-4N90*	1	4 13/16		
KL-F-4N90		4 5/8	3	3/8
KL-G-4N90	1 1/4	5	2 3/8	
KL-H-4N90	1 1/2	4 1/2	2 11/16	
KL-J-4N90	2	5 7/8	3	1/2
KL-K-4N90	2 1/2			
KL-L-4N90	3	6 1/8	3 3/4	5/8
KL-M-4N90	3 1/2	5 1/4		
KL-L-4N90	4		4	3/4
4" 4-Hole NEMA flat				
KL-G-4NN90	1 1/4	5	2 3/8	3/8
KL-H-4NN90	1 1/2	4 1/2	2 11/16	
KL-J-4NN90	2	5 7/8	3	1/2
KL-K-4NN90	2 1/2	6 1/2		5/8
KL-L-4NN90	3		5	7/8
KL-M-4NN90	3 1/2			
KL-P-4NN90	4	7 1/4	3 3/4	1

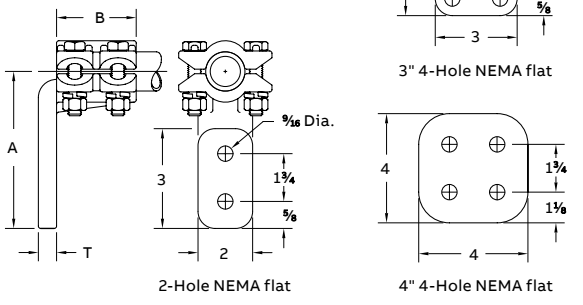
* 3/8" clamping hardware.
Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Type KLC – Bolted terminal, pipe to center-formed flat

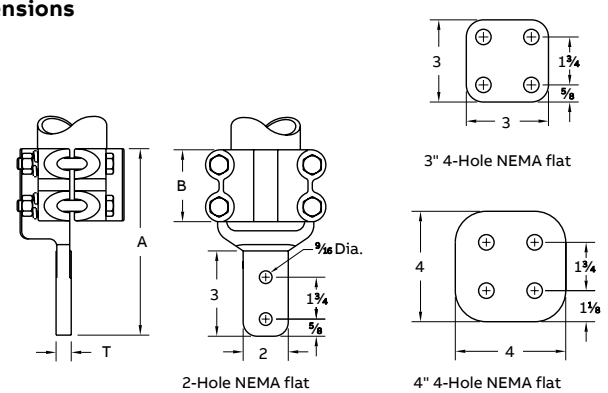
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat				
KLC-E-2N	3/4	6 5/8	3	1/2
KLC-F-2N	1	6 3/4		
KLC-G-2N	1 1/4	7 3/4		5/8
KLC-H-2N	1 1/2	7 1/4		
KLC-J-2N	2	7 7/16		
KLC-K-2N	2 1/2	7 1/2		
KLC-L-2N	3	8	3 3/4	3/4
3" 4-Hole NEMA flat				
KLC-E-4N	3/4	6 1/2	3	1/2
KLC-F-4N	1	6 3/4		
KLC-G-4N	1 1/4	6 1/2		
KLC-H-4N	1 1/2			
KLC-J-4N	2	7 7/16		5/8
KLC-K-4N	2 1/2	7 1/2		
KLC-L-4N	3	8	3 3/4	3/4
KLC-M-4N	3 1/2	9 1/2	4 1/4	7/8
KLC-P-4N	4	9 5/8		
4" 4-Hole NEMA flat				
KLC-E-4NN	3/4	6 1/2	3	1/2
KLC-F-4NN	1	7 5/8		
KLC-G-4NN	1 1/4	8 1/8		5/8
KLC-H-4NN	1 1/2	8 1/4		
KLC-J-4NN	2	7 3/4		
KLC-K-4NN	2 1/2	8		3/4
KLC-L-4NN	3	9 3/8	3 3/4	
KLC-M-4NN	3 1/2	10 1/2	4 1/4	13/16
KLC-P-4NN	4	10 1/4		7/8

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



Dimensions



Bolted bronze connectors

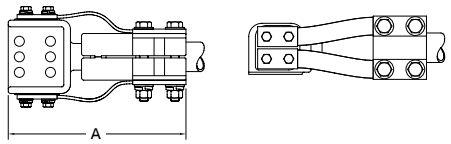
Type VEZ, 7ME and 7M

Type VEZ – Flexible terminal, pipe to flat

Cat. no.	SPS (in.)	A (in.)
2-Hole or 3" 4-Hole NEMA flat		
VEZ-E-2/4N	¾	10½
VEZ-F-2/4N	1	
VEZ-G-2/4N	1¼	11
VEZ-H-2/4N	1½	
VEZ-J-2/4N	2	
VEZ-K-2/4N	2½	11½
VEZ-L-2/4N	3	

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Type 7ME – Terminal, cable to flat, ⅜" clamping hardware

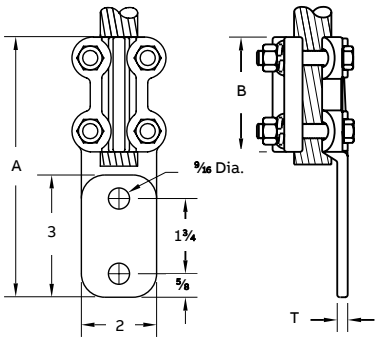
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat					
7ME-4/0-2N	#8–4/0	0.146–0.528	6	2¾	¼
7ME-60-2N	#4–600	0.232–0.893			
7ME-80-2N	2/0–800	0.419–1.031	6⅛	2⅝	½
3" 4-Hole NEMA flat					
7ME-60-4N	#4–600	0.232–0.893	6	2¾	¼
7ME-80-4N	2/0–800	0.419–1.031	6⅛	2⅝	½

Type 7M – Terminal, cable to flat, ½" clamping hardware

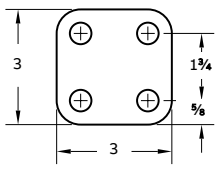
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat					
7M-60-2N	#4–600	0.232–0.893	6½	3	½
7M-80-2N	2/0–800	0.494–1.031	5⅞	2³⁄₁₆	
7M-125-2N	4/0–1250	0.528–1.289	6¾	3	⅝
7M-200-2N	500–2000	0.813–1.630			
3" 4-Hole NEMA flat					
7M-60-4N	#4–600	0.232–0.893	5¾	2½	⅜
7M-80-4N	2/0–800	0.419–1.031	5⅞	2³⁄₁₆	½
7M-125-4N	4/0–1250	0.528–1.289	6¾	3	⅝
7M-200-4N	500–2000	0.813–1.630			
4" 4-Hole NEMA flat					
7M-80-4NN	2/0–800	0.419–1.031	6¾	2³⁄₁₆	⅜
7M-125-4NN	4/0–1250	0.528–1.289	7¼	3	⅝
7M-200-4NN	500–2000	0.813–1.630			

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

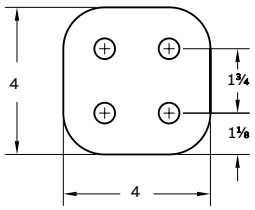
Dimensions



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Bolted bronze connectors

Type 7ME-45, 7M-45, 7ME-90 and 7M-90

Type 7ME-45 – Terminal, cable to flat at 45˚, ⅜" clamping hardware

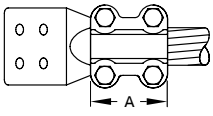
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat				
7ME-60-2N45	#4–600	0.232–0.893	2¾	½
3" 4-Hole NEMA flat				
7ME-60-4N45	#4–600	0.232–0.893	3	½

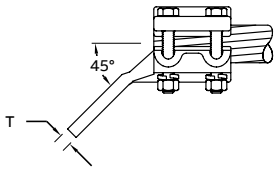
Type 7M-45 – Terminal, cable to flat at 45˚, ½" clamping hardware

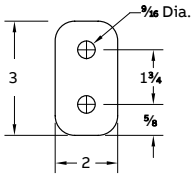
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat				
7M-60-2N45	#4–600	0.232–0.893	3	½
7M-100-2N45	4/0–1000	0.528–1.152		
3" 4-Hole NEMA flat				
7M-60-4N45	#4–600	0.232–0.893	3	½
7M-100-4N45	4/0–1000	0.528–1.152		
4" 4-Hole NEMA flat				
7M-100-4NN45	4/0–1000	0.528–1.152	3	½
7M-200-4NN45	500–2000	0.813–1.630		⅝

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1. All pads are finished on both sides.

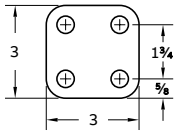
Dimensions



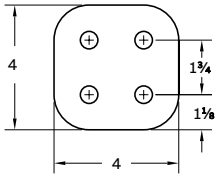




2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

Type 7ME-90 – Terminal, cable to flat at 90˚, ⅜" clamping hardware

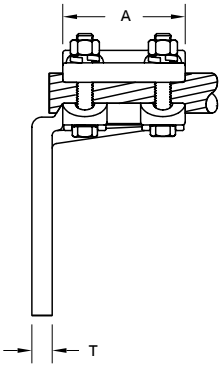
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat				
7ME-60-2N90	#4–600	0.232–0.893	2¾	½
7ME-80-2N90	2/0–800	0.419–1.031	2⅝	
3" 4-Hole NEMA flat				
7ME-60-4N90	#4–600	0.232–0.893	2¾	½
7ME-80-4N90	2/0–800	0.419–1.031	2⅝	

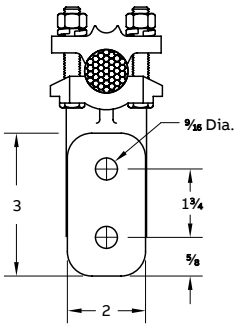
Type 7M-90 – Terminal, cable to flat at 90˚, ½" clamping hardware

Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat				
7M-60-2N90	#4–600	0.232–0.893	3	½
7M-80-2N90	2/0–800	0.419–1.031	2 3⁄16	
7M-100-2N90	4/0–1000	0.528–1.152	3	⅝
3" 4-Hole NEMA flat				
7M-60-4N90	#4–600	0.232–0.893	3	½
7M-80-4N90	2/0–800	0.419–1.031	2 3⁄16	
7M-100-4N90	4/0–1000	0.528–1.152	3	⅜
4" 4-Hole NEMA flat				
7M-100-4NN90	4/0–1000	0.528–1.152	3	⅝
7M-200-4NN90	500–2000	0.813–1.630		

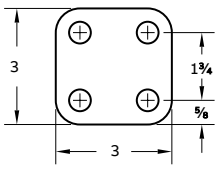
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1. All pads are finished on both sides.

Dimensions

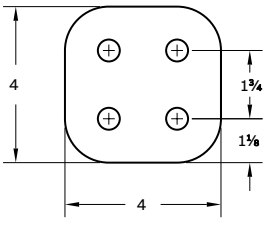




2-Hole NEMA flat



3" 4-Hole NEMA flat

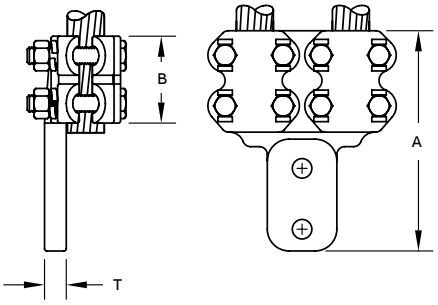


4" 4-Hole NEMA flat

Bolted bronze connectors

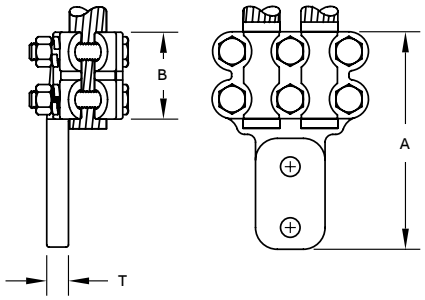
Type 7MM and 7MM1 – Terminal, two cables to flat

Two-cap design



Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat					
7MM-100-2N	4/0–1000	0.528–1.152	7 1/8	3 3/8	1/2
3" 4-Hole NEMA flat					
7MM-100-4N	4/0–1000	0.528–1.152	7 1/8	3 5/8	1/2
7MM-200-4N	500–2000	0.813–1.630	8 5/8	4 1/2	
4" 4-Hole NEMA flat					
7MM-100-4NN	4/0–1000	0.528–1.152	7 5/8	3 3/8	7/16
7MM-200-4NN	500–2000	0.813–1.630	8 3/4	4 1/2	1/2

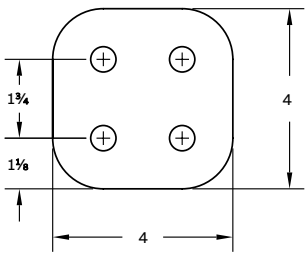
One-cap design



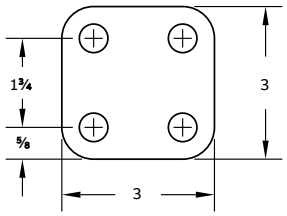
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat					
7MM1-60-2N	#4–600	0.232–0.893	6 1/4	2 3/4	1/2
7MM1-80-2N	2/0–800	0.419–1.031			
3" 4-Hole NEMA flat					
7MM1-60-4N	#4–600	0.232–0.893	6 1/4	2 3/4	3/4
7MM1-80-4N	2/0–800	0.419–1.031	6 5/8	2 5/8	1/2
7MM1-100-4N	4/0–1000	0.528–1.152			
4" 4-Hole NEMA flat					
7MM1-60-4NN	#4–600	0.232–0.893	7 1/4	2 3/4	1/2
7MM1-80-4NN	2/0–800	0.419–1.031	7 1/8	2 5/8	
7MM1-100-4NN	4/0–1000	0.528–1.152			

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

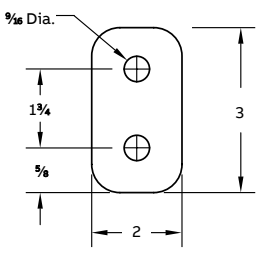
Dimensions



4" 4-Hole NEMA flat



3" 4-Hole NEMA flat

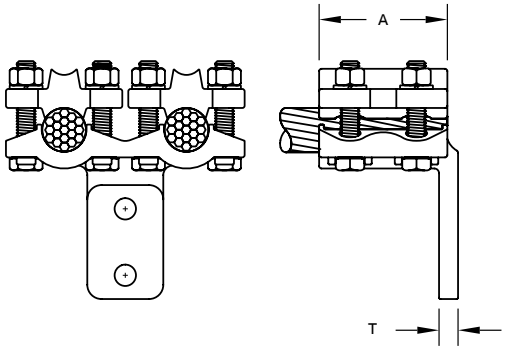


2-Hole NEMA flat

Bolted bronze connectors

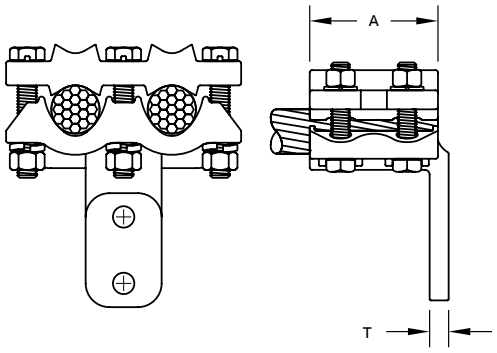
Type 7MM-90 and 7MM1-90 – Terminal, two cables to flat at 90°

Two-cap design



Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat				
7MM-100-2N90	4/0–1000	0.528–1.152	3 3/8	1/2
3" 4-Hole NEMA flat				
7MM-60-2N90	#2–600	0.232–0.893	3	1/2
7MM-100-4N90	4/0–1000	0.528–1.152	3 5/8	
7MM-200-4N90	500–2000	0.813–1.630	4 1/2	
4" 4-Hole NEMA flat				
7MM-100-4NN90	4/0–1000	0.528–1.152	3 3/8	7/16
7MM-200-4NN90	500–2000	0.813–1.630	4 1/2	1/2

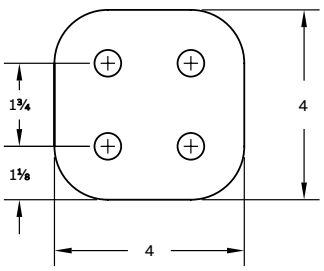
One-cap design



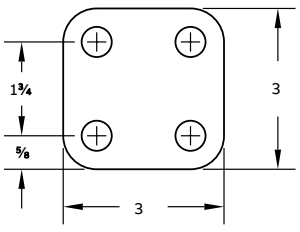
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	T (in.)
2-Hole NEMA flat				
7MM1-60-2N90	#4–600	0.232–0.893	2 3/4	1/2
7MM1-80-2N90	2/0–800	0.419–1.031		
3" 4-Hole NEMA flat				
7MM1-60-4N90	#4–600	0.232–0.893	2 3/4	3/4
7MM1-80-4N90	2/0–800	0.419–1.031	2 5/8	1/2
7MM1-100-4N90	4/0–1000	0.528–1.152		
4" 4-Hole NEMA flat				
7MM1-60-4NN90	#4–600	0.232–0.893	2 3/4	1/2
7MM1-80-4NN90	2/0–800	0.419–1.031	2 5/8	
7MM1-100-4NN90	4/0–1000	0.528–1.152		

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

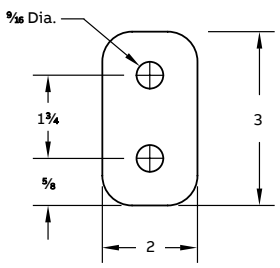
Dimensions



4" 4-Hole NEMA flat



3" 4-Hole NEMA flat



2-Hole NEMA flat

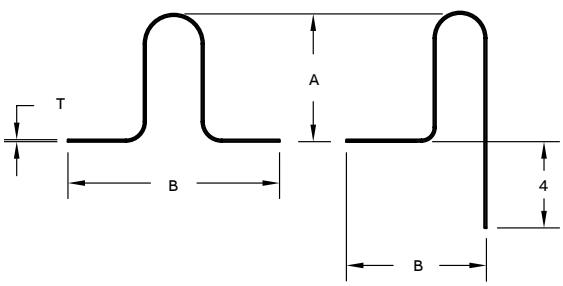
Bolted bronze connectors

Type VLS – Flexible copper straps

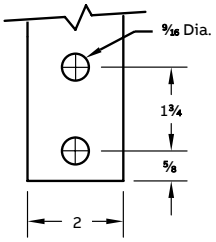
Type VLS – Flexible copper straps

Cat. no.	Style	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
VLS1-440-2N	1	6	11 1/4	1/8	440
VLS1-640-2N				1/4	640
VLS1-860-2N				3/8	860
3" 4-Hole NEMA flat					
VLS1-690-4N	1	8	13 1/4	1/8	690
VLS1-970-4N		8 1/8		1/4	970
VLS1-1200-4N		8		3/8	1200
4" 4-Hole NEMA flat					
VLS1-900-4NN	1	8	13 1/4	1/8	900
VLS1-1200-4NN				1/4	1200
VLS1-1440-4NN				3/8	1440
2-Hole NEMA flat					
VLS2-440-2N	2	6	7 5/8	1/8	440
VLS2-640-2N				1/4	640
VLS2-860-2N				3/8	860
3" 4-Hole NEMA flat					
VLS2-690-4N	2	8	8 5/8	1/8	690
VLS2-970-4N				1/4	970
VLS2-1200-4N				3/8	1200
4" 4-Hole NEMA flat					
VLS2-900-4NN	2	8	8 5/8	1/8	900
VLS2-1200-4NN				1/4	1200
VLS2-1440-4NN				3/8	1440

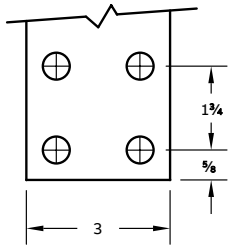
Dimensions



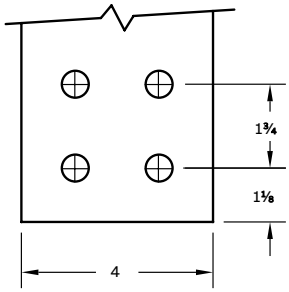
Style 1 Style 2



2-Hole NEMA flat



3" 4-Hole NEMA flat

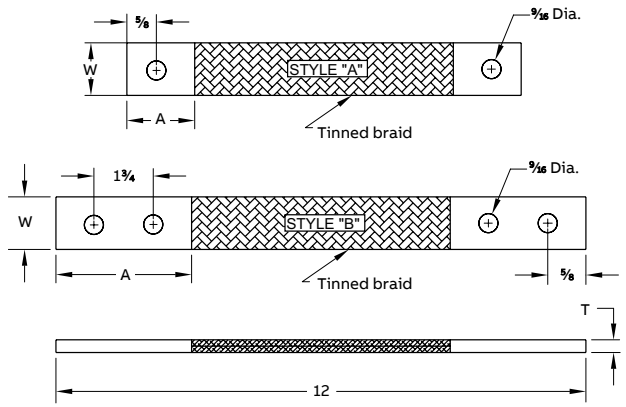


4" 4-Hole NEMA flat

Bolted bronze connectors

Type VGG and FB

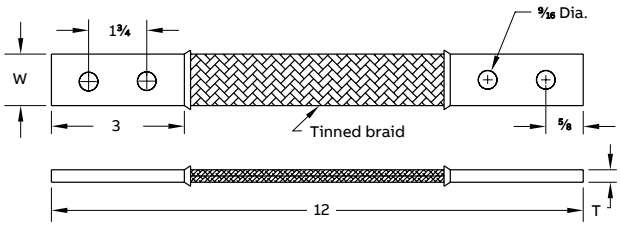
Type VGG – Flexible braided jumpers, flat to flat



Cat. no.	Amps Outdoor	Amps Indoor	A (in.)	Style	Braid layers	W (in.)	T (in.)
GA-397-L	210	160	1¼	A	1	1¼	¼
GA-398-U	365	280			2		
GA-399-T	440	340			3		
GB-8819-E	700	530			2	2	7⁄16
GA-397-I	210	160	3	B	1	1¼	¼
GA-398-G	365	280			2		
GA-399-B	440	340			3		
GB-8819-C	700	530			2	2	7⁄16

For other sizes and configurations, consult customer service.

Type FB – Flexible braided jumpers, ferrules formed with cuff, flat to flat



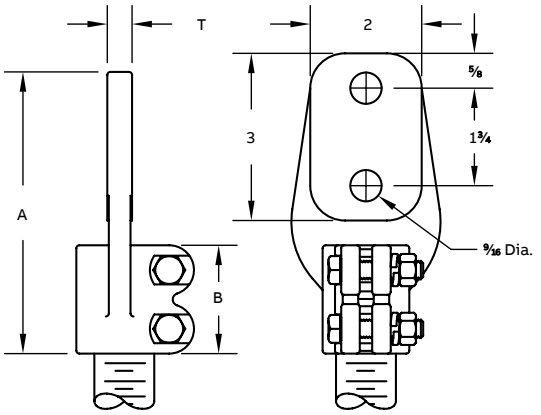
Cat. no.	Amps indoor	W (in.)	T (in.)	Braid layers
FB11-2N	210	1	⅛	1
FB12-2N	340	1⅛	3⁄16	2
FB13-2N	470	1¼	¼	3
FB14-2N	600		⅜	4
FB21-2N	330		¼	1
FB22-2N	500	1½	5⁄16	2
FB23-2N	700	1⅝	½	3
FB24-2N	850			4
FB31-2N	395	1½	⅛	1
FB32-2N	540		⅜	2
FB33-2N	820		½	3
FB34-2N	940		¾	4
FB41-2N	430		¼	1
FB42-2N	700		½	2
FB43-2N	960		¾	3
FB44-2N	1200	1⅝	⅞	4

For other sizes and configurations, consult customer service.

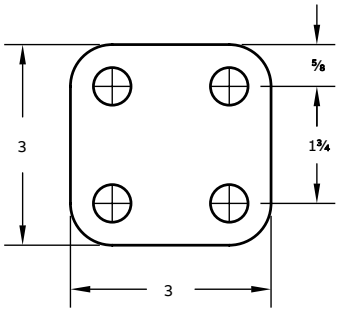
Bolted bronze connectors

Type KSLC – Stud connector, stud to flat

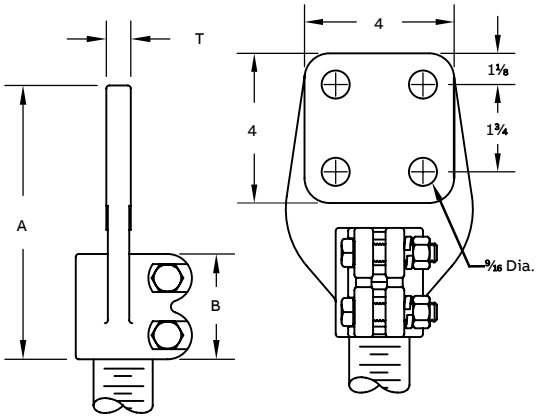
Type KSLC – Stud connector, stud to flat



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

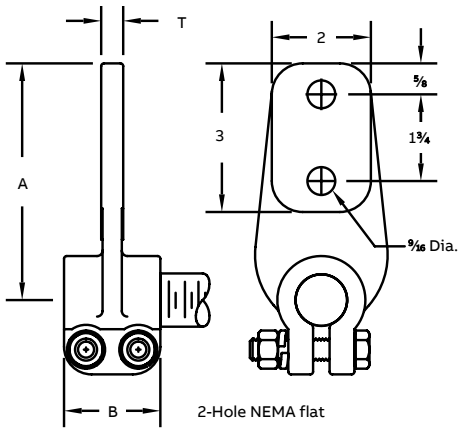
Cat. no.	Stud size (in.)	A (in.)	B (in.)	T (in.)	Amps
2-Hole NEMA flat					
KSLC-3-2N	3/4–16	5 3/4	1 1/2	3/8	600
KSLC-5-2N	1–14	5 1/4			
KSLC-6-2N	1 1/8–12	6 1/8	2 3/16		
KSLC-8-2N	1 1/4–12				
KSLC-10-2N	1 1/2–12	7 3/8	2 5/8	9/16	
KSLC-11B-2N	1 3/4–12	6 3/4	2 1/2	5/8	
KSLC-13-2N	2–12	7 1/4			
KSLC-13A-2N	2 1/4–12	7 3/8	2 5/8		
3" 4-Hole NEMA flat					
KSLC-3-4N	3/4–16	5 3/8	1 1/2	3/8	600
KSLC-5-4N	1–14	5 1/4			1200
KSLC-6-4N	1 1/8–12	6 1/8	2 3/16		
KSLC-8-4N	1 1/4–12			9/16	
KSLC-10-4N	1 1/2–12	7 3/8	2 1/4		
KSLC-11B-4N	1 3/4–12	6 3/4	2 1/2		
KSLC-13-4N	2–12	7 1/4		5/8	1800
KSLC-13A-4N	2 1/4–12	7 3/8			
KSLC-15-4N	3–12	10 1/4	3 1/4	1	2400
KSLC-15A-4N	3 1/2–12	8 1/4			
4" 4-Hole NEMA flat					
KSLC-5-4NN	1–14	6 1/2	2 1/4	1/2	1600
KSLC-6-4NN	1 1/8–12	6 11/16	2		
KSLC-8-4NN	1 1/4–12				
KSLC-10-4NN	1 1/2–12	8	2 1/4	5/8	
KSLC-11B-4NN	1 3/4–12	8 1/4	2 1/2	1/2	2400
KSLC-13-4NN	2–12			5/8	
KSLC-13-4NN-3KA	2–12	7 5/8	2 3/8	1	3000
KSLC-13A-4NN	2 1/4–12	8 1/8	3 1/8	3/4	2400
KSLC-13A-4NN-3KA		7 5/8	2 3/8	1	3000
KSLC-13B-4NN	2 1/2–12	8 1/8	3 1/8	3/4	2400
KSLC-13B-4NN-3KA		8 3/4	3 1/4	1	3000
KSLC-15-4NN	3–12	9 1/8	4	3/4	2400
KSLC-15-4NN-3KA		8 11/16	3 1/4	1	3000
KSLC-15-4NN-4KA		9 3/4	4	1 1/4	4000
KSLC-15A-4NN	3 1/2–12	9 9/16	4 1/8	3/4	2400
KSLC-15A-4NN-4KA		8 3/4	3 1/4	1 1/4	4000
KSLC-16-4NN	4–12	9 1/2	4 1/8	1	3000
KSLC-16-4NN-4KA		9 3/4	4	1 1/4	4000
KSLC-17-4NN	4–10	9 1/2	4 1/8	1	3000
KSLC-17-4NN-4KA				1 1/4	4000

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

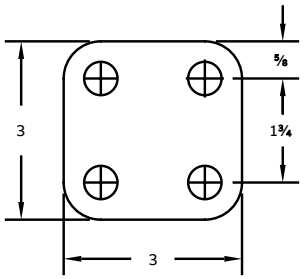
Bolted bronze connectors

Type KSLF – Stud connector, stud to flat at 90°

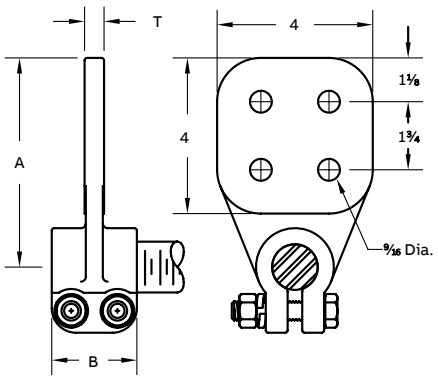
Type KSLF – Stud connector, stud to flat at 90˚



2-Hole NEMA flat



3" 4-Hole NEMA flat



4" 4-Hole NEMA flat

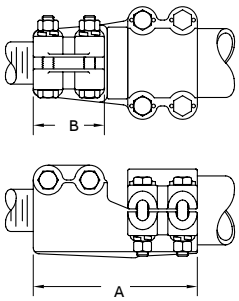
Cat. no.	Stud size (in.)	A (in.)	B (in.)	T (in.)
2-Hole NEMA flat				
KSLF-3-2N	3/4–16	4 3/16	2 3/16	5/8
KSLF-5-2N	1–14	4 1/8	2	7/16
KSLF-6-2N	1 1/8–12	4 1/4	2 1/4	1/2
KSLF-8-2N	1 1/4–12			
KSLF-10-2N	1 1/2–12	4 1/2		9/16
KSLF-11B-2N	1 3/4–12			
KSLF-13-2N	2–12	4 1/4		
KSLF-13A-2N	2 1/4–12	5 5/8	2 1/2	5/8
3" 4-Hole NEMA flat				
KSLF-3-4N	3/4–16	4 3/16	2 3/16	5/8
KSLF-5-4N	1–14	4 1/4	2 1/4	1/2
KSLF-6-4N	1 1/8–12			
KSLF-8-4N	1 1/4–12			
KSLF-10-4N	1 1/2–12	4 1/2		
KSLF-11B-4N	1 3/4–12			
KSLF-13-4N	2–12	4 5/8	2 1/2	5/8
KSLF-13A-4N	2 1/4–12			
KSLF-15-4N	3–12	6 1/4	3 1/4	1
KSLF-15A-4N	3 1/2–12			
4" 4-Hole NEMA flat				
KSLF-5-4NN	1–14	4 1/8	2	1/2
KSLF-6-4NN	1 1/8–12	5 1/2	2 1/4	
KSLF-8-4NN	1 1/4–12			
KSLF-10-4NN	1 1/2–12			9/16
KSLF-11B-4NN	1 3/4–12			1/2
KSLF-13-4NN	2–12	5 5/8		5/8
KSLF-13-4NN-3KA		6 11/16	2 1/2	1
KSLF-13A-4NN	2 1/4–12	5 5/8		3/4
KSLF-13A-4NN-3KA		6 11/16	3 1/4	1
KSLF-13B-4NN	2 1/2–12	6 1/2		3/4
KSLF-13B-4NN-3KA		6 11/16		1
KSLF-15-4NN	3–12			3/4
KSLF-15-4NN-3KA				1
KSLF-15-4NN-4KA				1 1/4
KSLF-15A-4NN	3 1/2–12			3/4
KSLF-15A-4NN-4KA				1 1/4
KSLF-16-4NN	4–12	7 5/8	4	1
KSLF-16-4NN-4KA				1 1/4
KSLF-17-4NN	4–10			1
KSLF-17-4NN-4KA				1 1/4

3 kA = 3000 Amp rating
4 kA = 4000 Amp rating
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Bolted bronze connectors

Type VIC and Type VIC-90

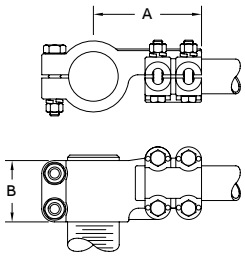
Type VIC – Stud connector, stud to pipe



Cat. no.	Stud size (in.)	SPS (in.)	A (in.)	B (in.)
VIC-6-C	1 1/8–12	1/2	5	2 1/4
VIC-6-E		3/4		
VIC-6-F		1		
VIC-6-G		1 1/4	5 1/2	
VIC-6-H		1 1/2		
VIC-6-J		2	5 3/8	
VIC-8-C	1 1/4–12	1/2		
VIC-8-E		3/4	5 1/4	
VIC-8-F		1	4 7/8	
VIC-8-G		1 1/4	5 1/2	
VIC-8-H		1 1/2		
VIC-8-J		2	6	
VIC-8-K		2 1/2	5 3/4	
VIC-10-C	1 1/2–12	1/2	5 1/2	
VIC-10-E		3/4	5	
VIC-10-F		1	5 1/4	
VIC-10-G		1 1/4	5 1/2	
VIC-10-H		1 1/2		2 1/2
VIC-10-J		2	6	
VIC-10-K		2 1/2	6 1/8	
VIC-10-L		3	6 7/8	
VIC-11B-C	1 3/4–12	1/2	5	
VIC-11B-E		3/4		
VIC-11B-F		1	5 1/4	
VIC-11B-G		1 1/4		
VIC-11B-H		1 1/2	5 1/2	
VIC-11B-J		2	6 1/2	
VIC-11B-K		2 1/2	5 1/2	
VIC-11B-L		3	7 7/8	
VIC-11B-M		3 1/2		
VIC-13-C	2–12	1/2	5	
VIC-13-E		3/4		
VIC-13-F		1	5 1/4	
VIC-13-G		1 1/4	6	
VIC-13-H		1 1/2	6 1/4	
VIC-13-J		2		
VIC-13-K		2 1/2		
VIC-13-L		3	7 3/4	
VIC-13-M		3 1/2		

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type VIC-90 – Stud connector, stud to pipe at 90°



Cat. no.	Stud size (in.)	SPS (in.)	A (in.)	B (in.)
VIC-6-C90	1 1/8–12	1/2	3 1/2	2 1/4
VIC-6-E90		3/4	3 3/4	
VIC-6-F90		1		
VIC-6-G90		1 1/4	4 1/2	
VIC-6-H90		1 1/2	4 3/8	
VIC-6-J90		2		
VIC-8-C90	1 1/4–12	1/2	3 1/2	
VIC-8-E90		3/4		
VIC-8-F90		1		
VIC-8-G90		1 1/4	4 1/4	
VIC-8-H90		1 1/2	4 3/8	
VIC-8-J90		2		
VIC-8-K90		2 1/2		
VIC-10-C90	1 1/2–12	1/2	3 3/4	
VIC-10-E90		3/4		
VIC-10-F90		1	4	
VIC-10-G90		1 1/4	4 1/4	
VIC-10-H90		1 1/2	4 3/4	
VIC-10-J90		2		2 1/2
VIC-10-K90		2 1/2	4 5/8	
VIC-10-L90		3		
VIC-11B-C90	1 3/4–12	1/2	4 1/4	
VIC-11B-E90		3/4		
VIC-11B-F90		1		
VIC-11B-G90		1 1/4	4 1/2	
VIC-11B-H90		1 1/2		
VIC-11B-J90		2	4 3/4	
VIC-11B-K90		2 1/2	4 7/8	
VIC-11B-L90		3		
VIC-11B-M90		3 1/2		
VIC-13-C90	2–12	1/2	4 1/4	
VIC-13-E90		3/4		
VIC-13-F90		1		
VIC-13-G90		1 1/4	4 7/8	
VIC-13-H90		1 1/2		
VIC-13-J90		2	5	
VIC-13-K90		2 1/2		
VIC-13-L90		3		
VIC-13-M90		3 1/2		

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Bolted bronze connectors

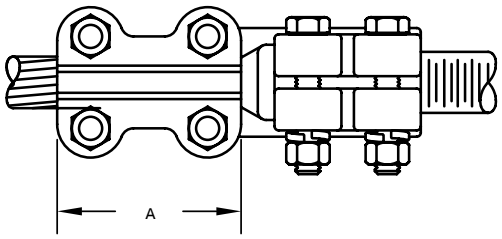
Type VID – Stud connector, stud to cable

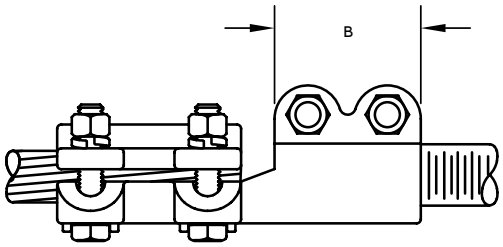
Type VID – Stud connector, stud to cable

Cat. no.	Stud size (in.)	Cable Size (AWG or kcmil)	Cable Dia. min.–max. (in.)	B (in.)	T (in.)
VID-6-4/0	1 1/8–12	#8–4/0	0.146–0.528	2 3/4	2 3/16
VID-6-60		#4–600	0.232–0.893		
VID-6-100		4/0–1000	0.528–1.152	3	
VID-6-125		900–1250	1.094–1.289		
VID-8-4/0	1 1/4–12	#8–4/0	0.146–0.528	2 3/4	
VID-8-60		#4–600	0.232–0.893		
VID-8-100		4/0–1000	0.528–1.152	3	
VID-8-125		900–1250	1.094–1.289		
VID-10-4/0	1 1/2–12	#8–4/0	0.146–0.528	2 5/8	
VID-10-60		#4–600	0.232–0.893	2 3/4	2 1/4
VID-10-100		4/0–1000	0.528–1.152	3	2
VID-10-125		900–1250	1.094–1.289		2 1/4
VID-11B-4/0	1 3/4–12	#8–4/0	0.146–0.528	2 5/8	2 5/8
VID-11B-60		#4–600	0.232–0.893	3	
VID-11B-100		4/0–1000	0.528–1.152		2
VID-11B-125		900–1250	1.094–1.289		
VID-13-4/0	2–12	#8–4/0	0.146–0.528	2 5/8	2 1/8
VID-13-60		#4–600	0.232–0.893	2 3/4	
VID-13-100		4/0–1 000	0.528–1.152	3	2 5/8
VID-13-125		900–1250	1.094–1.289		

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions





Bolted bronze connectors

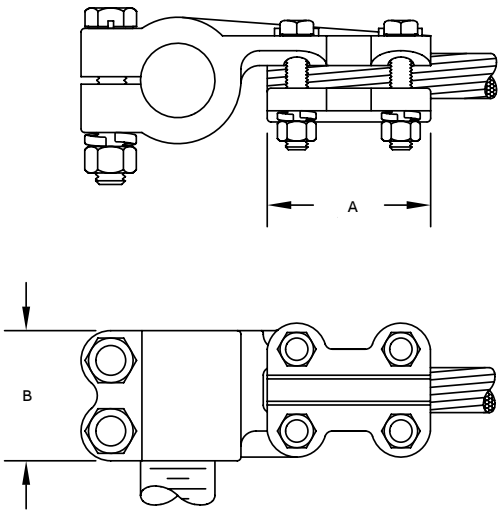
Type VID-90 – Stud connector, stud to cable at 90°

Type VID-90 – Stud connector, stud to cable at 90˚

Cat. no.	Stud size (in.)	Cable Size (AWG or kcmil)	Cable Dia. min.–max. (in.)	A (in.)	B (in.)
VID-6-4/0-90	1⅛–12	#8–4/0	0.146–0.528	2⅝	2⅜
VID-6-60-90		#4–600	0.232–0.893	2¾	
VID-6-80-90		500–800	0.813–1.031	3	
VID-6-125-90		900–1250	1.094–1.289	3⅝	
VID-8-4/0-90	1¼–12	#8–4/0	0.146–0.528	2¾	
VID-8-60-90		#4–600	0.232–0.893		
VID-8-80-90		500–800	0.813–1.031	3	
VID-8-125-90		900–1250	1.094–1.289		
VID-10-4/0-90	1½–12	#8–4/0	0.146–0.528	2¾	
VID-10-60-90		#4–600	0.232–0.893		
VID-10-80-90		500–800	0.813–1.031	2⅝	
VID-10-125-90		900–1250	1.094–1.289	3	
VID-11B-4/0-90	1¾–12	#8–4/0	0.146–0.528	2⅝	2½
VID-11B-60-90		#4–600	0.232–0.893	2¾	
VID-11B-80-90		500–800	0.813–1.031	2 3/16	
VID-11B-125-90		900–1250	1.094–1.289	3	
VID-13-4/0-90	2–12	#8–4/0	0.146–0.528	2⅝	
VID-13-60-90		#4–600	0.232–0.893	2¾	
VID-13-80-90		500–800	0.813–1.031	3	
VID-13-125-90		900–1250	1.094–1.289		

Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

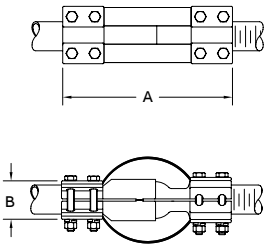
Dimensions



Bolted bronze connectors

Type VIF and VIF-90

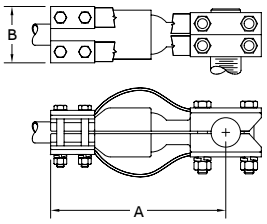
Type VIF – Flexible stud connector, stud to pipe



Cat. no.	Stud size (in.)	SPS (in.)	A (in.)	B (in.)
VIF-6-C	1 1/8–12	1/2	9 1/2	1 3/4
VIF-6-E		3/4		
VIF-6-F		1		1 7/8
VIF-6-G		1 1/4	10	2 5/8
VIF-6-H		1 1/2		2 7/8
VIF-6-J		2		3 1/4
VIF-8-C	1 1/4–12	1/2	9 1/2	1 3/4
VIF-8-E		3/4		
VIF-8-F		1		1 7/8
VIF-8-G		1 1/4	10	2 5/8
VIF-8-H		1 1/2		2 7/8
VIF-8-J		2		3 1/4
VIF-8-K		2 1/2	11	3 5/8
VIF-10-C	1 1/2–12	1/2	9 1/2	1 3/4
VIF-10-E		3/4		
VIF-10-F		1		1 7/8
VIF-10-G		1 1/4	10	2 5/8
VIF-10-H		1 1/2		2 7/8
VIF-10-J		2		3 1/4
VIF-10-K		2 1/2	11	3 5/8
VIF-10-L		3		4 1/2
VIF-11B-C	1 3/4–12	1/2	10	1 3/4
VIF-11B-E		3/4		
VIF-11B-F		1		1 7/8
VIF-11B-G		1 1/4	10 1/2	2 5/8
VIF-11B-H		1 1/2		2 7/8
VIF-11B-J		2		3 1/4
VIF-11B-K		2 1/2	11 1/2	3 5/8
VIF-11B-L		3		4 1/2
VIF-11B-M		3 1/2	12	5 1/4
VIF-13-C	2–12	1/2	11	1 3/4
VIF-13-E		3/4		
VIF-13-F		1		1 7/8
VIF-13-G		1 1/4	12	2 5/8
VIF-13-H		1 1/2		2 7/8
VIF-13-J		2		3 1/4
VIF-13-K		2 1/2	12 1/2	3 5/8
VIF-13-L		3	13	4 1/2
VIF-13-M		3 1/2	13 1/2	5 1/4

Other sizes available; consult customer service.
For copper laminate shunts instead of braid, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type VIF-90 – Flexible stud connector, stud to pipe at 90°



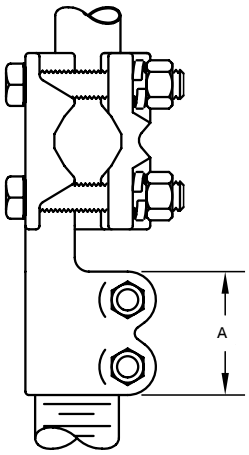
Cat. no.	Stud size (in.)	SPS (in.)	A (in.)	B (in.)
VIF-6-C90	1 1/8–12	1/2	9 5/16	2 7/8
VIF-6-E90		3/4		
VIF-6-F90		1		3
VIF-6-G90		1 1/4	11 1/2	3 9/16
VIF-6-H90		1 1/2		3 3/4
VIF-6-J90		2		4 1/4
VIF-8-C90	1 1/4–12	1/2	8 11/16	2 7/8
VIF-8-E90		3/4		
VIF-8-F90		1	9 11/16	3
VIF-8-G90		1 1/4		3 9/16
VIF-8-H90		1 1/2		3 3/4
VIF-8-J90		2		4 1/4
VIF-8-K90		2 1/2		
VIF-10-C90	1 1/2–12	1/2	9 3/16	2 7/8
VIF-10-E90		3/4		
VIF-10-F90		1	8 11/16	3
VIF-10-G90		1 1/4	10 3/16	3 9/16
VIF-10-H90		1 1/2		3 3/4
VIF-10-J90		2		4 1/4
VIF-10-K90		2 1/2	10 11/16	
VIF-10-L90		3		5 3/8
VIF-11B-C90	1 3/4–12	1/2	9 5/16	2 7/8
VIF-11B-E90		3/4		
VIF-11B-F90		1	10	3
VIF-11B-G90		1 1/4	11	4 1/4
VIF-11B-H90		1 1/2		3 3/4
VIF-11B-J90		2		4 1/4
VIF-11B-K90		2 1/2		
VIF-11B-L90		3		5 3/8
VIF-11B-M90		3 1/2		5 7/8
VIF-13-C90	2–12	1/2	9 5/16	2 7/8
VIF-13-E90		3/4		
VIF-13-F90		1	10	3
VIF-13-G90		1 1/4	11	4 1/4
VIF-13-H90		1 1/2		3 3/4
VIF-13-J90		2		4 1/4
VIF-13-K90		2 1/2		
VIF-13-L90		3		5 3/8
VIF-13-M90		3 1/2		5 7/8

Other sizes available; consult customer service.
For copper laminate shunts instead of braid, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

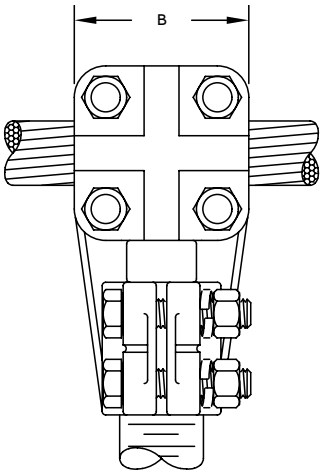
Bolted bronze connectors

Type 5M – Stud connector, stud to cable, pipe or flat

Type 5M – Stud connector, stud to cable, pipe or flat



This illustration represents a horizontal configuration.



This illustration represents a vertical configuration.

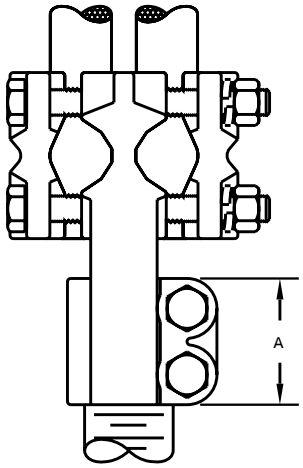
Cat. no.	Stud size (in.)	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	SPS (in.)	A (in.)	B (in.)
5M663-5	1–14	#6–500	0.162–0.813	3/8–1/2	2 1/4	2 1/4
5M863-5		#2–1000	0.258–1.152	3/8–3/4		3
5M663-6	1 1/8–12	#6–500	0.162–0.813	3/8–1/2		2 5/8
5M863-6		#2–1000	0.258–1.152	3/8–3/4		3
5M963-6		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M663-8	1 1/4–12	#6–500	0.162–0.813	3/8–1/2		2 5/8
5M863-8		#2–1000	0.258–1.152	3/8–3/4		3
5M963-8		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M663-10	1 1/2–12	#6–500	0.162–0.813	3/8–1/2	2 3/8	2 5/8
5M863-10		#2–1000	0.258–1.152	3/8–3/4		3
5M963-10		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M863-11B	1 3/4–12	#2–1000	0.258–1.152	3/8–3/4		3
5M963-11B		4/0–2000	0.528–1.630	3/8–1 1/4	2 1/2	3 3/4
5M863-13	2–12	#2–1000	0.258–1.152	3/8–3/4		3
5M963-13		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4

This Type 5M universal connector can be used for horizontal or vertical take-off to a flat.
It will accommodate a wide range of cable just by turning the cap.
Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

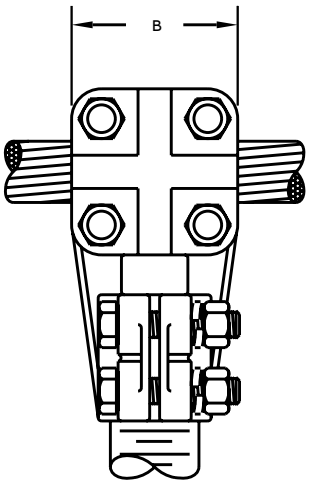
Bolted bronze connectors

Type 5M-2 – Stud connector, stud to cable or pipe

Type 5M-2 – Stud connector, stud to cable or pipe



This illustration represents a horizontal configuration.



This illustration represents a vertical configuration.

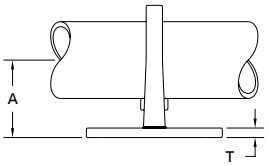
Cat. no.	Stud size (in.)	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	SPS (in.)	A (in.)	B (in.)
5M663-2-5	1–14	#6–500	0.162–0.813	3/8–1/2	2 1/4	2 1/4
5M863-2-5		#2–1000	0.258–1.152	3/8–3/4		3
5M663-2-6	1 1/8–12	#6–500	0.162–0.813	3/8–1/2		2 5/8
5M863-2-6		#2–1000	0.258–1.152	3/8–3/4		3
5M963-2-6		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M663-2-8	1 1/4–12	#6–500	0.162–0.813	3/8–1/2		2 5/8
5M863-2-8		#2–1000	0.258–1.152	3/8–3/4		3 1/8
5M963-2-8		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M663-2-10	1 1/2–12	#6–500	0.162–0.813	3/8–1/2	2 3/8	2 5/8
5M863-2-10		#2–1000	0.258–1.152	3/8–3/4		3 1/8
5M963-2-10		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M863-2-11B	1 3/4–12	#2–1000	0.258–1.152	3/8–3/4		3
5M963-2-11B		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M863-2-13	2–12	#2–1000	0.258–1.152	3/8–3/4	2 1/2	3
5M963-2-13		4/0–2000	0.528–1.630	3/8–1 1/4		3 3/4
5M963-2-15	3–12				4	3 1/2

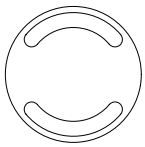
This Type 5M-2 universal connector can be used for horizontal or vertical take-off to a flat.
It will accommodate a wide range of cable just by turning the cap.
Other sizes available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Bolted bronze connectors

Type KTB and KSBE

Type KTB – Slide bus support, pipe to insulator



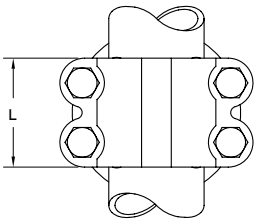


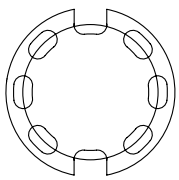
Slots: 3" BC 9/16
5" BC 9/16

Cat. no.	SPS (in.)	A (in.)	T (in.)
3" Bolt circle			
KTB-E-3	3/4	2	1/2
KTB-F-3	1		
KTB-G-3	1 1/4	2 1/4	
KTB-H-3	1 1/2	2 1/2	
KTB-J-3	2	2 3/4	
KTB-K-3	2 1/2	3 1/8	
KTB-L-3	3	3 5/8	
KTB-M-3	3 1/2	4	5/8
KTB-P-3	4	4 1/2	
5" Bolt circle			
KTB-E-5	3/4	2 1/4	1/2
KTB-F-5	1		
KTB-G-5	1 1/4	2 3/8	
KTB-H-5	1 1/2	2 1/2	
KTB-J-5	2	2 3/4	
KTB-K-5	2 1/2	3 1/8	
KTB-L-5	3	3 5/8	5/8
KTB-M-5	3 1/2	4	
KTB-P-5	4	4 1/2	

Stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied. Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type KSBE — Bus support, clamp or slip fit, pipe to insulator





Slots: 3" BC 9/16 x 3/4
5" BC 11/16 x 7/8

Cat. no.	SPS (in.)	A (in.)	L (in.)
3" Bolt circle			
KSBE-C-3	1/2	1 3/4	2 1/4
KSBE-E-3	3/4	2	
KSBE-F-3	1		
KSBE-G-3	1 1/4	2 1/4	2 3/4
KSBE-H-3	1 1/2	2 1/2	
KSBE-J-3	2	2 3/4	
KSBE-K-3	2 1/2	3 1/8	3
KSBE-L-3	3	3 5/8	3 1/2
KSBE-M-3	3 1/2	4	4
KSBE-P-3	4	4 1/2	
5" Bolt circle			
KSBE-C-5	1/2	2 1/8	3
KSBE-E-5	3/4	2 1/4	2 3/8
KSBE-F-5	1		
KSBE-G-5	1 1/4	2 3/8	3 1/4
KSBE-H-5	1 1/2	2 1/2	2 3/4
KSBE-J-5	2	2 3/4	3
KSBE-K-5	2 1/2	3 1/8	
KSBE-L-5	3	3 5/8	3 1/2
KSBE-M-5	3 1/2	4	3 3/4
KSBE-P-5	4	4 1/2	

Stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied. Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Bolted bronze connectors

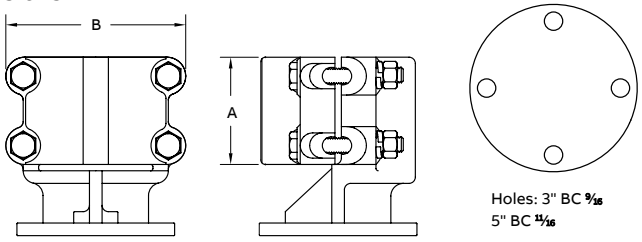
Type KVBS and KSBD

Type KVBS – Vertical bus support, pipe to insulator

Cat. no.	SPS (in.)	A (in.)	T (in.)
3" Bolt circle			
KVBS-E-3	3/4	2 1/4	2 13/16
KVBS-F-3	1		
KVBS-G-3	1 1/4	3	3 9/16
KVBS-H-3	1 1/2		3 3/4
KVBS-J-3	2		4 1/4
KVBS-K-3	2 1/2	4	4 3/4
KVBS-L-3	3		5 1/4
KVBS-M-3	3 1/2		5 3/4
KVBS-P-3	4		6 1/4
5" Bolt circle			
KVBS-E-5	3/4	2 1/4	2 13/16
KVBS-F-5	1		
KVBS-G-5	1 1/4	3	3 9/16
KVBS-H-5	1 1/2		3 3/4
KVBS-J-5	2		4 1/4
KVBS-K-5	2 1/2		4 3/4
KVBS-L-5	3	4	5 1/4
KVBS-M-5	3 1/2		5 3/4
KVBS-P-5	4		6 1/4

Galvanized hardware for mounting to insulator is supplied.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions

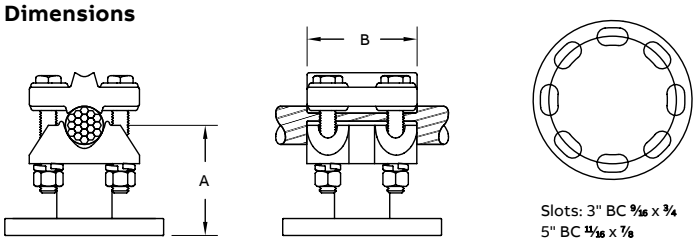


Type KSBD – Bolted bus support, cable to insulator

Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
3" Bolt circle				
KSBD-60-3	#4–600	0.232–0.893	2 1/2	2 3/4
KSBD-100-3	4/0–1000	0.528–1.152	3	3
KSBD-175-3	250–1750	0.575–1.526	2 3/4	3 1/2
5" Bolt circle				
KSBD-60-5	#4–600	0.232–0.893	2 1/2	2 7/8
KSBD-100-5	4/0–1000	0.528–1.152	3	3
KSBD-175-5	250–1750	0.575–1.526	3 1/8	3 5/8

Galvanized hardware for mounting to insulator is supplied.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted bronze connectors

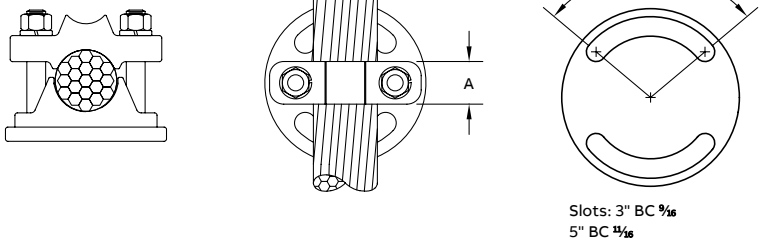
Type 8M and PT

Type 8M – Bus support, cable or pipe to insulator

Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	SPS (in.)	A (in.)
3" Bolt circle				
8M-25-3	#6–250	0.162–0.574	1/4	1
8M-50-3	1/0–500	0.368–0.813		1 1/2
8M-100-3	4/0–1000	0.460–1.152	3/4	
8M-200-3	500–2000	0.811–1.630	1 1/4	1 1/4
8M-300-3	1000–3000	1.152–1.998	2	1 1/2
5" Bolt circle				
8M-25-5	#6–250	0.162–0.574	1/4	1
8M-50-5	1/0–500	0.368–0.813		1 1/2
8M-100-5	4/0–1000	0.460–1.152	3/4	
8M-200-5	500–2000	0.811–1.630	1 1/4	1 1/4
8M-300-5	1000–3000	1.152–1.998	2	1 1/2

Galvanized hardware for mounting to insulator is supplied.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions

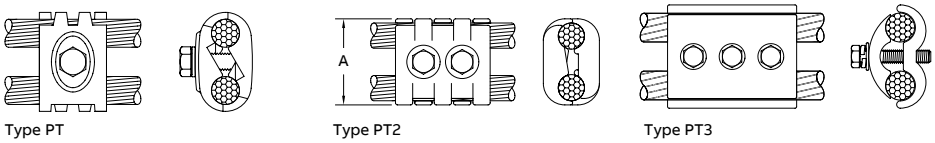


Type PT – Parallel clamps, cable to cable

	Run		Tap		
Cat. no.	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)
PT-2/0-8	#8–2/0	0.146–0.419	#8–2/0	0.146–0.419	2
PT-1048	1/0–4/0	0.368–0.464	#8–#1	0.146–0.328	
PT2-4/0-4	#4–4/0	0.232–0.528	#4–4/0	0.232–0.528	
PT2-30-30*	#2–300	0.292–0.630	#2–300	0.292–0.630	2 1/2
PT2-50-1	250–500	0.575–0.813	#1–4/0	0.328–0.522	2 1/4
PT2-50-50			250–500	0.575–0.813	2 11/16
PT3-50-50*					4 1/2
PT3-100-100	4/0–1000	0.528–1.152	4/0–1000	0.528–1.152	

* Supplied with nuts and washers for assembly.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted bronze connectors

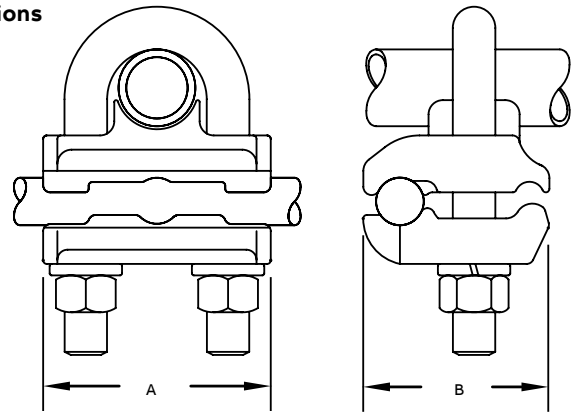
Type 2755 – Ground connector, one cable, parallel or perpendicular, to pipe or rod

Type 2755 – Ground connector, one cable, parallel or perpendicular, to pipe or rod

Cat. no.	SPS (in.)	Rod dia (in.).	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
2755-B-4	¼–⅜	½–⅝	#8–#4	0.129–0.204	2⅛	1½
2755-B-2/0			#4–2/0	0.204–0.419		
2755-B-25			2/0–250	0.419–0.575		
2755-B-50			300–500	0.630–0.813		2
2755-E-4	½–¾	⅞–1	#8–#4	0.129–0.204	2½	1½
2755-E-2/0			#4–2/0	0.204–0.419		
2755-E-25			2/0–250	0.419–0.575		
2755-E-50			300–500	0.630–0.813		2
2755-F-4	1	1–1¼	#8–#4	0.129–0.204	2¾	1½
2755-F-2/0			#4–2/0	0.204–0.419		
2755-F-25			2/0–250	0.419–0.575		
2755-F-50			300–500	0.630–0.813		2
2755-G-4	1¼	–	#8–#4	0.129–0.204	3	1½
2755-G-2/0			#4–2/0	0.204–0.419		
2755-G-25			2/0–250	0.419–0.575		
2755-G-50			300–500	0.630–0.813		2
2755-G-75			550–750	0.855–0.998		
2755-H-4	1½	–	#8–#4	0.129–0.204	3⅜	1½
2755-H-2/0			#4–2/0	0.204–0.419		
2755-H-25			2/0–250	0.419–0.575		
2755-H-50			300–500	0.630–0.813		2
2755-H-75			550–750	0.855–0.998		
2755-J-4	2	–	#8–#4	0.129–0.204	3¾	1½
2755-J-2/0			#4–2/0	0.204–0.419		
2755-J-25			2/0–250	0.419–0.575		
2755-J-50			300–500	0.630–0.813		2
2755-J-75			550–750	0.855–0.998		
2755-K-4	2½	–	#8–#4	0.129–0.204	4¼	1½
2755-K-2/0			#4–2/0	0.204–0.419		
2755-K-25			2/0–250	0.419–0.575		
2755-K-50			300–500	0.630–0.813		2
2755-K-75			550–750	0.855–0.998		
2755-L-4	3	–	#8–#4	0.129–0.204	4⅞	1½
2755-L-2/0			#4–2/0	0.204–0.419		
2755-L-25			2/0–250	0.419–0.575		
2755-L-50			300–500	0.630–0.813		2
2755-L-75			550–750	0.855–0.998		
2755-M-4	3½	–	#8–#4	0.129–0.204	5⅜	1½
2755-M-2/0			#4–2/0	0.204–0.419		
2755-M-25			2/0–250	0.419–0.575		
2755-M-50			300–500	0.630–0.813		2
2755-M-75			550–750	0.855–0.998		
2755-P-4	4	–	#8–#4	0.129–0.204	5⅞	1½
2755-P-2/0			#4–2/0	0.204–0.419		
2755-P-25			2/0–250	0.419–0.575		
2755-P-50			300–500	0.630–0.813		2
2755-P-75			550–750	0.855–0.998		
2755-R-4	5	–	#8–#4	0.129–0.204	7	1½
2755-R-2/0			#4–2/0	0.204–0.419		
2755-R-25			2/0–250	0.419–0.575		
2755-R-50			300–500	0.630–0.813		2
2755-R-75			550–750	0.855–0.998		
2755-S-4	6	–	#8–#4	0.129–0.204	8	1½
2755-S-2/0			#4–2/0	0.204–0.419		
2755-S-25			2/0–250	0.419–0.575		
2755-S-50			300–500	0.630–0.813		2
2755-S-75			550–750	0.855–0.998		

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



Bolted bronze connectors

Type 2752 – Ground connector, two or three cables, parallel, to pipe or rod

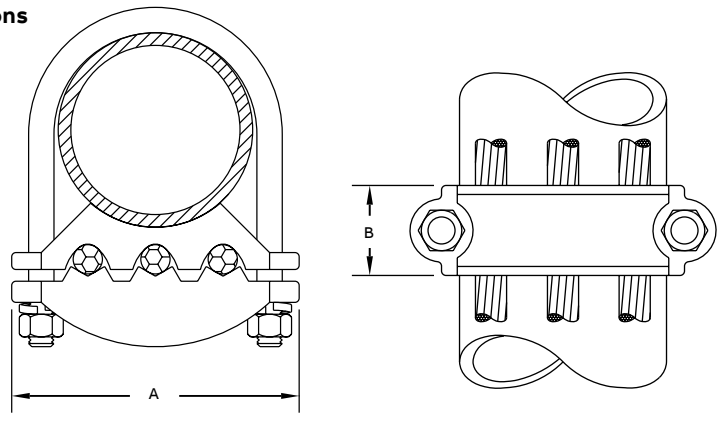
Type 2752 – Ground connector, two or three cables, parallel, to pipe or rod

Cat. no.	SPS (in.)	Rod dia. (in.)	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
2752-3-B-4	1/4–3/8	1/2–5/8	#8–#4	0.129–0.204	2 1/2	1 1/4
2752-3-B-2/0			#4–2/0	0.204–0.419	3	
2752-3-B-25			2/0–250	0.419–0.575	3 1/4	
2752-3-B-50			300–500	0.630–0.813	3 3/4	
2752-3-E-4	1/2–3/4	7/8–1	#8–#4	0.129–0.204	2 7/8	
2752-3-E-2/0			#4–2/0	0.204–0.419	3 3/8	
2752-3-E-25			2/0–250	0.419–0.575	3 1/2	
2752-3-E-50			300–500	0.630–0.813	4	
2752-3-F-4	1	1–1 1/4	#8–#4	0.129–0.204	3 1/8	
2752-3-F-2/0			#4–2/0	0.204–0.419	3 1/2	
2752-3-F-25			2/0–250	0.419–0.575	3 7/8	
2752-3-F-50			300–500	0.630–0.813	4 1/8	
2752-3-G-4	1 1/4	–	#8–#4	0.129–0.204	3	
2752-3-G-2/0			#4–2/0	0.204–0.419	3 7/8	
2752-3-G-25			2/0–250	0.419–0.575	4 1/8	
2752-3-G-50			300–500	0.630–0.813	5	1 1/2
2752-3-G-75			550–750	0.855–0.998	5 1/4	
2752-3-H-4	1 1/2	–	#8–#4	0.129–0.204	3 3/8	
2752-3-H-2/0			#4–2/0	0.204–0.419		
2752-3-H-25			2/0–250	0.419–0.575	4 1/2	
2752-3-H-50			300–500	0.630–0.813	5 1/8	
2752-3-H-75			550–750	0.855–0.998	5 1/2	
2752-3-J-4	2	–	#8–#4	0.129–0.204	3 3/4	1 1/4
2752-3-J-2/0			#4–2/0	0.204–0.419		
2752-3-J-25			2/0–250	0.419–0.575		
2752-3-J-50			300–500	0.630–0.813	5 5/8	1 1/2
2752-3-J-75			550–750	0.855–0.998	6	

Cat.no.	SPS (in.)	Rod dia. (in.)	Cable size (AWG or kcmil)	Cable diameter min.–max. (in.)	A (in.)	B (in.)
2752-3-K-4	2 1/2	–	#8–#4	0.129–0.204	4 1/4	1 1/4
2752-3-K-2/0			#4–2/0	0.204–0.419		
2752-3-K-25			2/0–250	0.419–0.575		
2752-3-K-50			300–500	0.630–0.813	6 1/8	1 1/2
2752-3-K-75			550–750	0.855–0.998	6 1/2	
2752-3-L-4	3	–	#8–#4	0.129–0.204	4 7/8	1 1/4
2752-3-L-2/0			#4–2/0	0.204–0.419		
2752-3-L-25			2/0–250	0.419–0.575		
2752-3-L-50			300–500	0.630–0.813	5 1/4	1 1/2
2752-3-L-75			550–750	0.855–0.998	7 1/8	
2752-3-M-4	3 1/2	–	#8–#4	0.129–0.204	5 3/8	1 1/4
2752-3-M-2/0			#4–2/0	0.204–0.419		
2752-3-M-25			2/0–250	0.419–0.575		
2752-3-M-50			300–500	0.630–0.813	5 3/4	1 1/2
2752-3-M-75			550–750	0.855–0.998		
2752-3-P-4	4	–	#8–#4	0.129–0.204	5 7/8	1 1/4
2752-3-P-2/0			#4–2/0	0.204–0.419		
2752-3-P-25			2/0–250	0.419–0.575		
2752-3-P-50			300–500	0.630–0.813	6 1/4	1 1/2
2752-3-P-75			550–750	0.855–0.998		
2752-3-R-4	5	–	#8–#4	0.129–0.204	7	1 1/4
2752-3-R-2/0			#4–2/0	0.204–0.419		
2752-3-R-25			2/0–250	0.419–0.575		
2752-3-R-50			300–500	0.630–0.813	7 3/8	1 1/2
2752-3-R-75			550–750	0.855–0.998		
2752-3-S-4	6	–	#8–#4	0.129–0.204	8	1 1/4
2752-3-S-2/0			#4–2/0	0.204–0.419		
2752-3-S-25			2/0–250	0.419–0.575		
2752-3-S-50			300–500	0.630–0.813	8 3/8	1 1/2
2752-3-S-75			550–750	0.855–0.998		

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

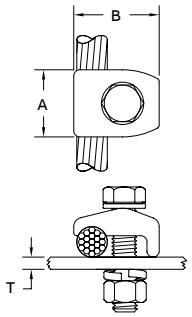
Dimensions



Bolted bronze connectors

Type 2709T-1, 2709-1 and 2709T-2

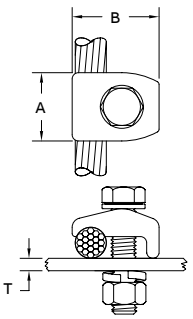
Type 2709T-1 – Ground connector, cable to flat



Cat. no.	Cable Range (AWG or kcmil)	Cable Diameter (in.)	Rod (in.)	A (in.)	B (in.)
2709T-1-4	#8–#4	0.129–0.232	3/16	1 1/2	1 7/16
2709T-1-2/0	#4–2/0	0.204–0.419	3/8		1 1/2
2709T-1-25	2/0–250	0.419–0.575	1/2	1 3/8	1 3/4
2709T-1-30	#4–300	0.204–0.630	5/8		
2709T-1-50	300–500	0.630–0.813	3/4	1 1/2	1 3/8
2709T-1-75	550–750	0.855–0.998	15/16		2 5/8
2709T-1-100	800–1000	1.031–1.152	1	1 5/8	2 7/8

¼" hardware provided for "T".
Specify other "T" if required. e.g. 2709T-1-75-T 1/2.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

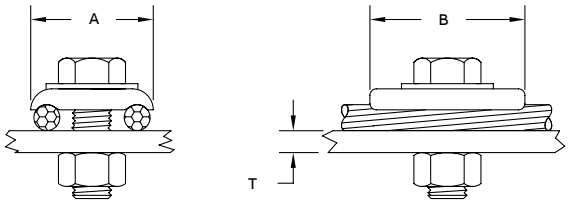
Type 2709-1 – Ground connector, cable to flat



Cat. No.	Cable Range (AWG or kcmil)	Cable Diameter (in.)	Rod (in.)	A (in.)	B (in.)
2709-1-4	#8–#4	0.129–0.232	3/16	1 1/2	1 9/16
2709-1-2/0	#4–2/0	0.204–0.419	3/8		
2709-1-25	2/0–250	0.419–0.575	1/2	1	1 5/8
2709-1-30	#4–300	0.204–0.630	5/8		
2709-1-50	300–500	0.630–0.813	3/4	1 1/2	2 1/4
2709-1-75	550–750	0.855–0.998	15/16		2 3/4
2709-1-100	800–1000	1.031–1.152	1	1 5/8	3

¼" hardware provided for "T".
Specify other "T" if required. e.g. 2709-1-4-T 1/2.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type 2709T-2 – Ground connector, two cables to flat



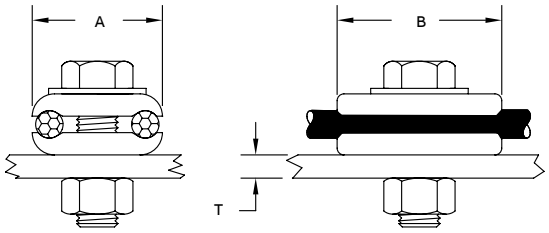
Cat. no.	Cable Range (AWG or kcmil)	Cable Diameter (in.)	Rod (in.)	A (in.)	B (in.)
2709T-2-4	#8–#4	0.129–0.232	3/16	1 1/8	1 1/2
2709T-2-2/0	#4–2/0	0.204–0.419	3/8	1 1/2	
2709T-2-25	2/0–250	0.419–0.575	1/2	2	
2709T-2-30	#4–300	0.204–0.630	5/8	2 1/2	2
2709T-2-50	300–500	0.630–0.813	3/4		
2709T-2-75	550–750	0.855–0.998	15/16	2 3/4	
2709T-2-100	800–1000	1.031–1.152	1	3 1/8	

¼" hardware provided for "T".
Specify other "T" if required. e.g. 2709-2-4-T 1/2.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Bolted bronze connectors

Type 2709-2 and 2710-2

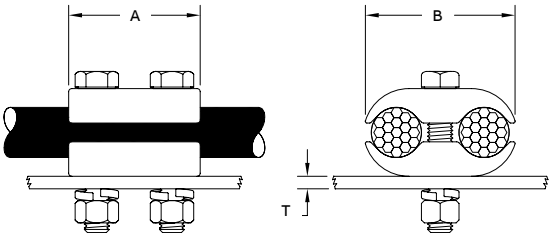
Type 2709-2 – Ground connector, two cables to flat



Cat. no.	Cable Range (AWG or kcmil)	Cable Diameter (in.)	Rod (in.)	A (in.)	B (in.)
2709-2-4	#8–#4	0.129–0.232	3/16	1 1/8	1 1/2
2709-2-2/0	#4–2/0	0.204–0.419	3/8	1 1/2	
2709-2-25	2/0–250	0.419–0.575	1/2	2	
2709-2-30	2/0–300	0.419–0.630	5/8	2 1/2	2
2709-2-50	300–500	0.630–0.813	3/4		
2709-2-75	550–750	0.855–0.998	15/16	2 3/4	
2709-2-100	800–1000	1.031–1.152	1	3 1/8	

¼" hardware provided for "T".
Specify other "T" if required; e.g. 2709-2-30-T 1/2.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type 2710-2 – Ground connector, two cables to flat



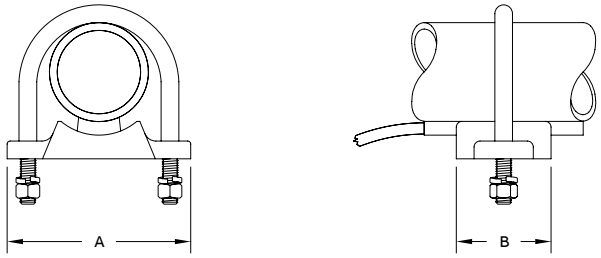
Cat. no.	Cable Range (AWG or kcmil)	Cable Diameter (in.)	Rod (in.)	A (in.)	B (in.)
2710-2-4	#8–#4	0.129–0.232	3/16	2 1/4	1 11/16
2710-2-2/0	#4–2/0	0.204–0.419	3/8		
2710-2-25	2/0–250	0.419–0.575	1/2	2 5/8	2 1/8
2710-2-30	2/0–300	0.419–0.630	5/8	2 3/4	2 3/8
2710-2-50	300–500	0.630–0.813	3/4	2 11/16	2 1/2
2710-2-75	550–750	0.855–0.998	15/16	2 5/8	3
2710-2-100	800–1000	1.031–.1.152	1	3 1/4	3 11/16

¼" hardware provided for "T".
Specify other "T" if required; e.g. 2710-2-30-T 1/2.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Bolted bronze connectors

Type NTB, VGH and transition plates

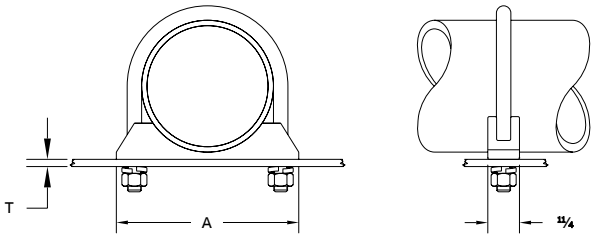
Type NTB – Ground clamp, braid to pipe or rod



Cat. no.	SPS (in.)	Rod (in.)	A (in.)	B (in.)
NTB-C	1/2	3/4	2 3/8	1 3/8
NTB-E	3/4	1		
NTB-F	1	1 1/4	2 5/8	
NTB-G	1 1/4	1 1/2	3	
NTB-H	1 1/2	–		
NTB-J	2	–	4 1/4	1 3/4
NTB-K	2 1/2	–	4 1/2	
NTB-L	3	–	5 1/8	2 1/4
NTB-M	3 1/2	–	5 3/4	
NTB-P	4	–	6 1/8	2 1/2
NTB-R	5	–	7 1/2	1 1/2
NTB-S	6	–	8 3/8	1 3/4

Other sizes are available; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

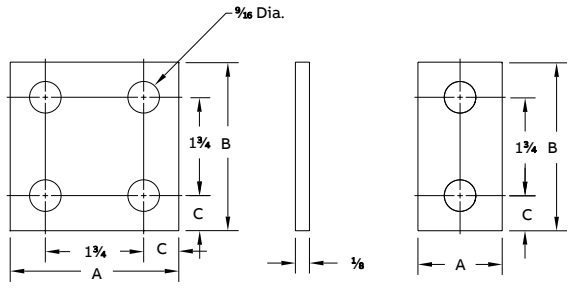
Type VGH – Ground connector, pipe to flat



Cat. no.	SPS (in.)	A (in.)
VGH-C	1/2	2 1/8
VGH-E	3/4	2 3/8
VGH-F	1	2 7/8
VGH-G	1 1/4	3
VGH-H	1 1/2	3 1/2
VGH-J	2	4 1/4
VGH-K	2 1/2	4 11/16
VGH-L	3	5 3/8
VGH-M	3 1/2	5 7/8
VGH-P	4	6 3/16
VGH-R	5	7 1/4
VGH-S	6	8 1/2

1/4" hardware provided for "T".
Specify other "T" if required; e.g. VGH-R-T 1/2.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Transition plates



Style 1 Style 2

Cat. no.	Style	A (in.)	B (in.)	C (in.)
GB-9557-1.5	2	1 1/2	3	5/8
GB-9557-2		2		
GB-9557-3	1	3		
GB-9557-4		4	4	1 1/8

Material: copper. Finish: tin-plated.

EHV connectors

Quick reference

01 Pad shields
See page 141

02 Type WAA-CF
See page 141

03 Type WAA-15-CF
See page 142

04 Type WAV-15-CF
See page 143

05 Type WAY-CF
See page 144

06 Type WAY-90-CF
See page 144

07 Type WALB-CF
See page 145

08 Type WAKA-90-CF
See page 145

09 Type WAKA-45-CF
See page 145

10 Type WASC-CF
See page 146

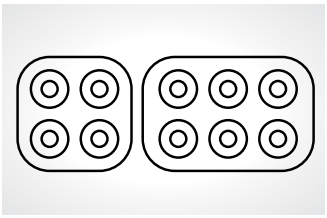
11 Type WAFG-CF
See page 146

12 Type WAFG-CR-CF
See page 146

13 Type WAP-CF
See page 147

14 Type WAP-CT-CF
See page 147

15 Type WAP-45-CF
See page 148



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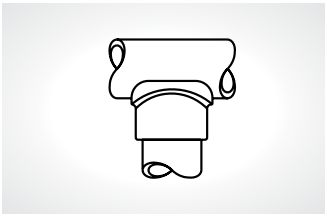

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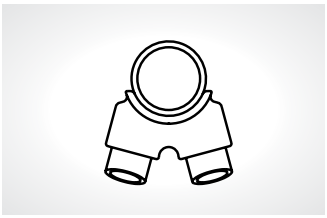

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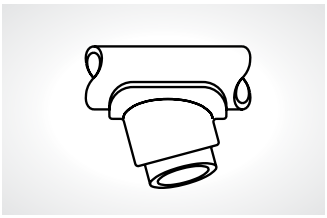

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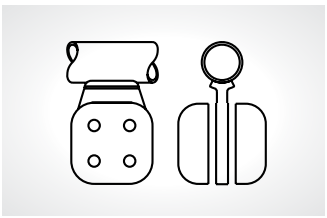

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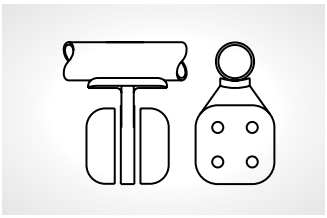

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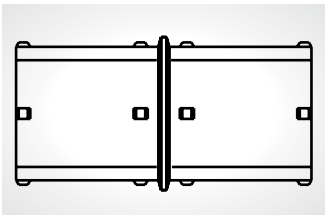

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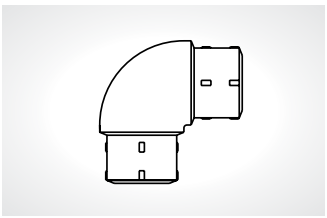

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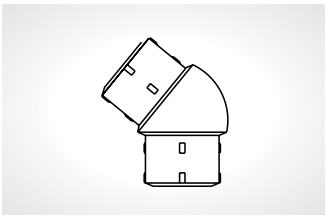

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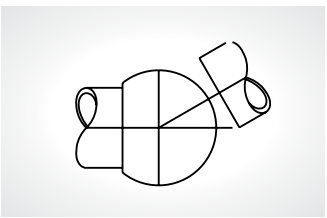

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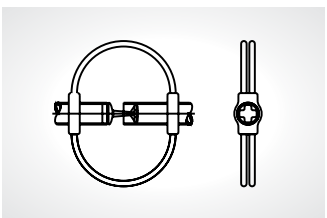

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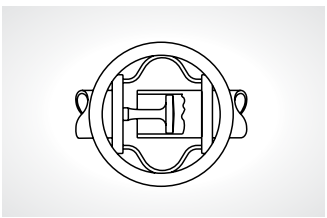

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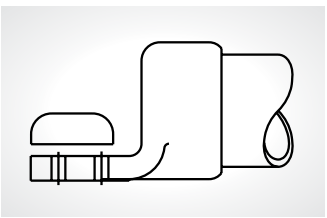

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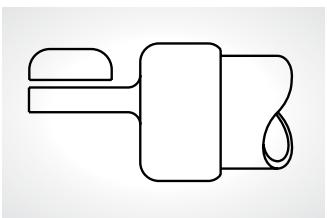

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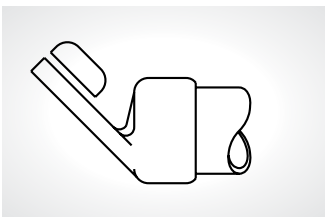


15

EHV connectors

Quick reference

01 Type WAP-90-CF
See page 148

02 Type WAFF-CF
See page 149

03 Type WAFF-B-CF
See page 149

04 Type WAFF-A-CF
See page 150

05 Type WAFF-CT-CR-CF
See page 150

06 Type
WAGL, -45,
-90, -CF
See page 151

07 Type
WAGL-2,
-45, -90, -CF
See page 152

08 Type WAXB-CF
See page 153

09 Type WAXP-CF
See page 153

10 Type WAXC-CF
See page 153

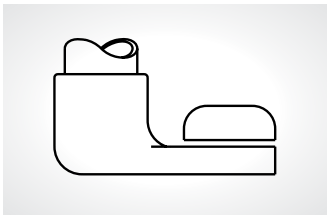
11 Type WAST-CF
See page 154

12 Type WAXY-CF
See page 154

13 Type WAFS-CF
See page 154

14 Type WAFS-CR-CF
See page 155

15 Type WP-CF
See page 155



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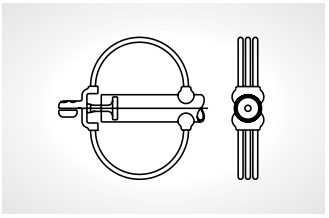

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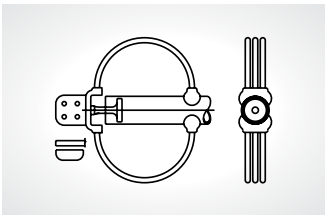

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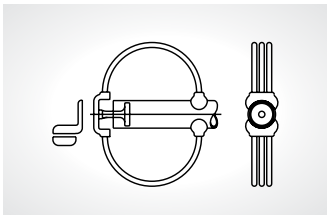

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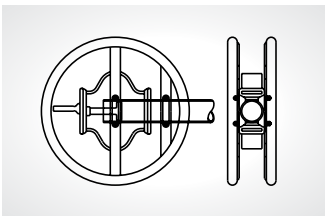

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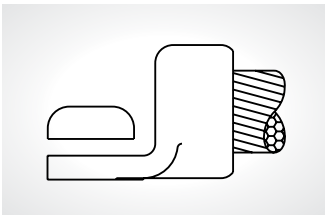

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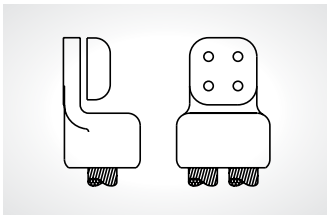

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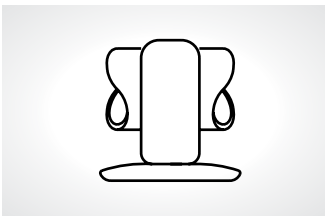

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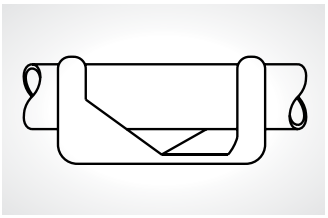

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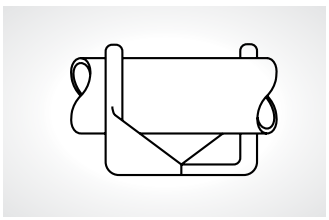

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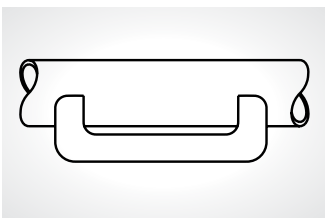

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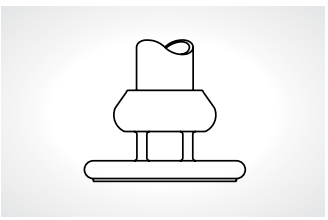

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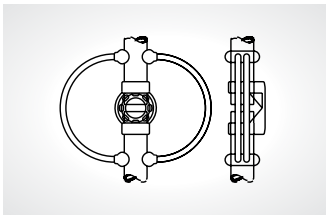

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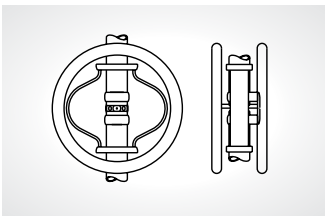

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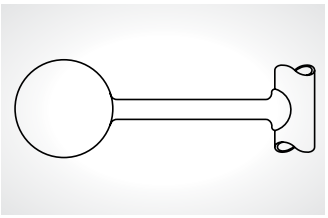


15

EHV connectors

Quick reference

01 Type WVM-CF
See page 155

02 Type AVA-CF
See page 156

03 Type AVAA-CF
See page 156

04 Type AVB-CF
See page 157

05 Type AVC-CF
See page 158

06 Type AVD-CF
See page 159

07 Type AVLA-CF
See page 159

08 Type AVKA-45-CF
See page 160

09 Type AVKA-90-CF
See page 160

10 Type AFG-CF
See page 160

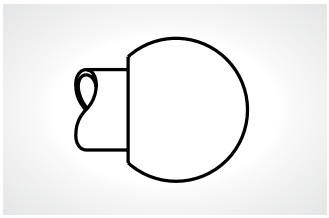
11 Type AFG-CR-CF
See page 161

12 Type AVP-CT-CF
See page 161

13 Type AVP-90-CF
See page 162

14 Type AFF-CT-CF
See page 162

15 Type
AFF-CT-CR-CF
See page 162



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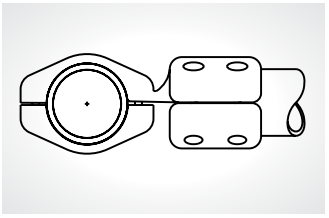

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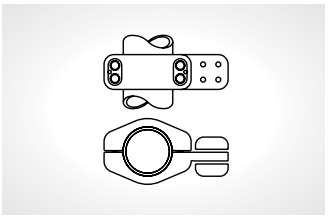

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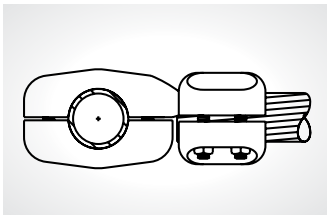

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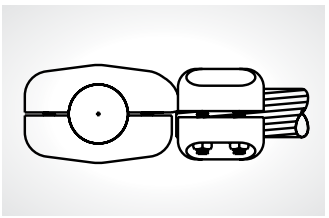

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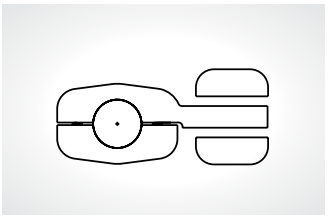

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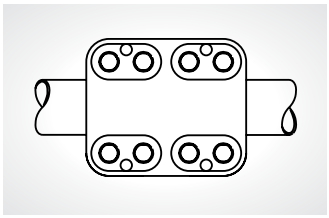

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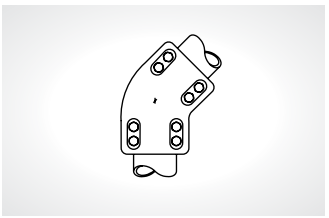

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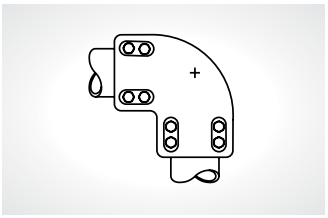

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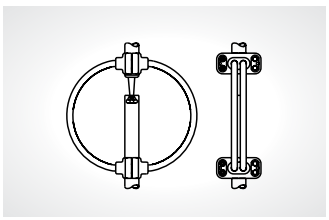

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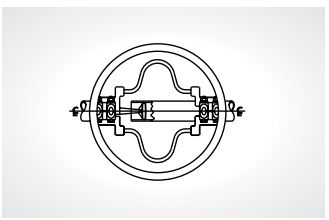

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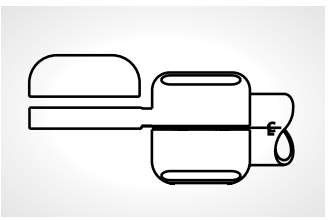

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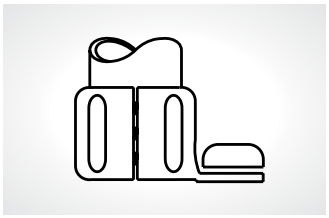

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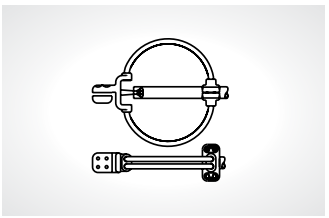

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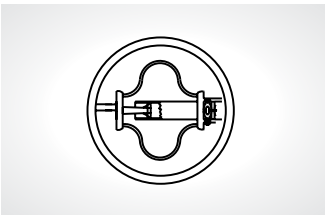


15

EHV connectors

Quick reference

01 Type AGL-CF
See page 163

02 Type AGL-2-CF
See page 163

03Type AVIE-CF
See page 164

04 Type AVXE-CF
See page 164

05 Type AFS-CF
See page 165

06 Type AFS-CR-CF
See page 165

07 Type AVXA-CF
See page 166

08 Type AVXA-2-CF
See page 166

09 Type AS-CF
See page 167

10 Type ASLA-CF
See page 167

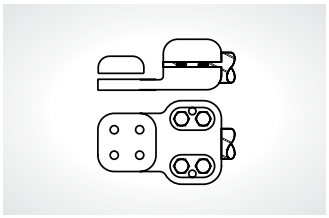
11 Type ASLA-90-CF
See page 168

12 Type AP-CF
See page 168

13 Type AVM-CF
See page 169

14 Type AVW-CF
See page 169

01



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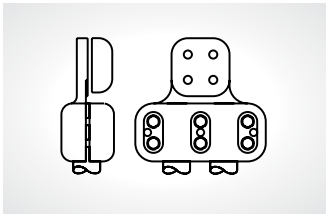

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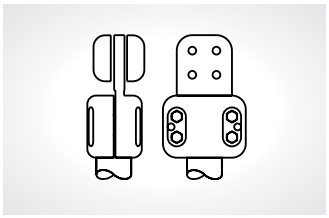

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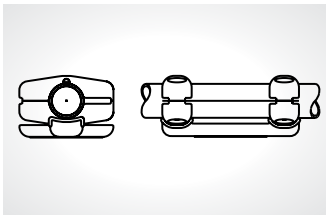

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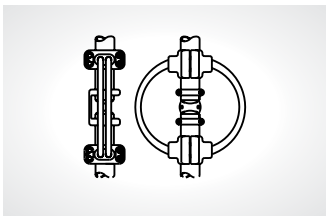

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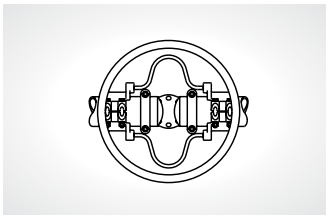

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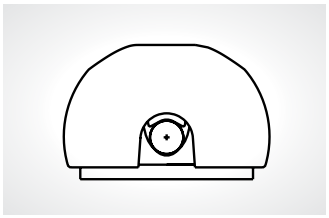

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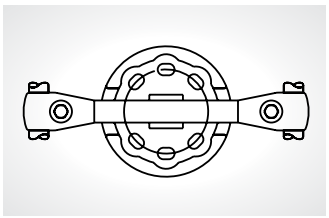

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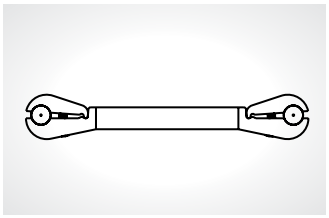

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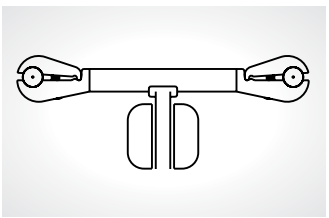

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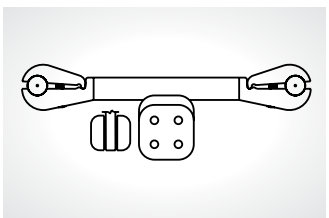

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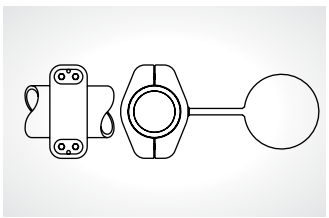

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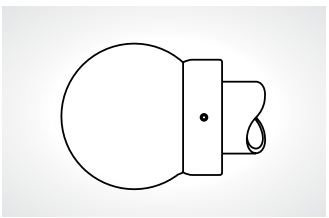

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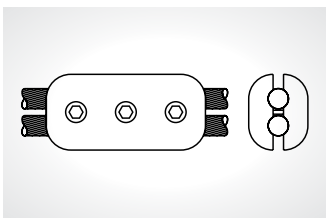
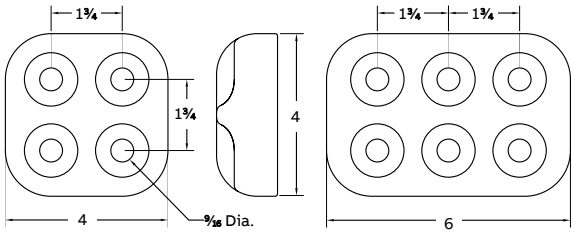


EHV connectors

Pad shield and Type WAA-CF

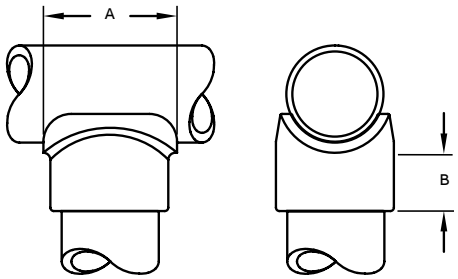
Pad shield



Cat. no.	Size (in.)
EH-1188 / VAPP-4NN	4 x 4
EH-1186 / VAPP-6NW	4 x 6

Pad surface is finished.

Type WAA-CF – Weld tee connector, pipe to pipe



Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
EH-3188	2	2	2 1/2	1
EH-3189	2 1/2	2	3 5/8	1
EH-3190		2 1/2	4 1/8	1 1/4
EH-3191	3	2	3 5/8	1
EH-3192		2 1/2	4 1/8	1 1/4
EH-3193		3	4 7/8	
EH-3194	3 1/2	2	3 5/8	1
EH-3195		2 1/2	4 1/8	1 1/4
EH-3196		3	4 7/8	
EH-3197		3 1/2	5 3/8	1 1/2
EH-3198	4	2	3 5/8	1
EH-3199		2 1/2	4 1/8	1 1/4
EH-3200		3	4 7/8	
EH-3201		3 1/2	5 3/8	1 1/2
EH-3202		4	5 7/8	
EH-3203	5	2	3 5/8	1
EH-3204		2 1/2	4 1/8	1 1/4
EH-3205		3	4 7/8	
EH-3206		3 1/2	5 3/8	1 1/2
EH-3207		4	5 7/8	
EH-3208		5	6 7/8	
EH-3209	6	2	3 5/8	1
EH-3210		2 1/2	4 1/8	1 1/4
EH-3211		3	4 7/8	
EH-3212		3 1/2	5 3/8	1 1/2
EH-3213		4	5 7/8	
EH-3214		5	6 7/8	
EH-3215		6	8	

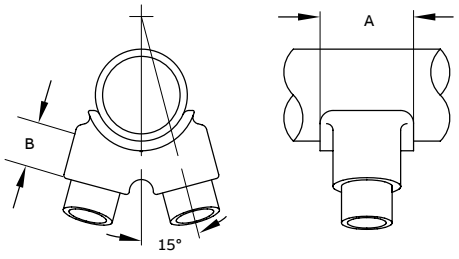
EHV connectors

Type WAA-15-CF – Weld vee connector, pipe run to two pipe taps, each at 15°

Type WAA-15-CF – Weld vee connector, pipe run to two pipe taps, each at 15°

Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
EH-3250	2	2	3 5/8	1
EH-3251	2 1/2	2	3 5/8	1
EH-3252		2 1/2	4 1/8	1 1/4
EH-3253	3	2	3 5/8	1
EH-3254		2 1/2	4 1/8	1 1/4
EH-3255		3	4 7/8	
EH-3256	3 1/2	2	3 5/8	1
EH-3257		2 1/2	4 1/8	1 1/4
EH-3258		3	4 7/8	
EH-3259		3 1/2	5 3/8	1 1/2
EH-3260	4	2	3 5/8	1
EH-3261		2 1/2	4 1/8	1 1/4
EH-3262		3	4 7/8	
EH-3263		3 1/2	5 3/8	1 1/2
EH-3264		4	5 7/8	
EH-3265	5	2	3 5/8	1
EH-3266		2 1/2	4 1/8	1 1/4
EH-3267		3	4 7/8	
EH-3268		3 1/2	5 3/8	1 1/2
EH-3269		4	5 7/8	
EH-3270		5	6 7/8	
EH-3271	6	2	3 5/8	1
EH-3272		2 1/2	4 1/8	1 1/4
EH-3273		3	4 7/8	
EH-3274		3 1/2	5 3/8	1 1/2
EH-3275		4	5 7/8	
EH-3276		5	6 7/8	
EH-3277		6	8	

Dimensions



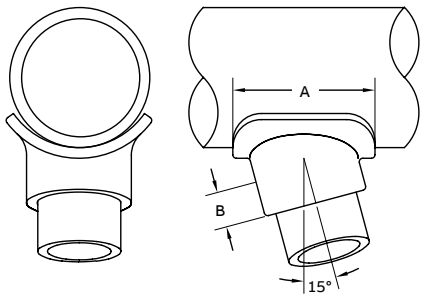
EHV connectors

Type WAV-15-CF – Weld tee connector, pipe run to pipe tap at 15°

Type WAV-15-CF – Weld tee connector, pipe run to pipe tap at 15°

Cat. No.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
EH-3280	2	2	3 5/8	1
EH-3281	2 1/2	2	3 5/8	1
EH-3282		2 1/2	4 1/8	1 1/4
EH-3283	3	2	3 5/8	1
EH-3284		2 1/2	4 1/8	1 1/4
EH-3285		3	4 7/8	
EH-3286	3 1/2	2	3 5/8	1
EH-3287		2 1/2	4 1/8	1 1/4
EH-3288		3	4 7/8	
EH-3289		3 1/2	5 3/8	1 1/2
EH-3290	4	2	3 5/8	1
EH-3291		2 1/2	4 1/8	1 1/4
EH-3292		3	4 7/8	
EH-3293		3 1/2	5 3/8	1 1/2
EH-3294		4	5 7/8	
EH-3295	5	2	3 5/8	1
EH-3296		2 1/2	4 1/8	1 1/4
EH-3297		3	4 7/8	
EH-3298		3 1/2	5 3/8	1 1/2
EH-3299		4	5 7/8	
EH-3300		5	6 7/8	
EH-3301	6	2	3 5/8	1
EH-3302		2 1/2	4 1/8	1 1/4
EH-3303		3	4 7/8	
EH-3304		3 1/2	5 3/8	1 1/2
EH-3305		4	5 7/8	
EH-3306		5	6 7/8	
EH-3307		6	8	

Dimensions

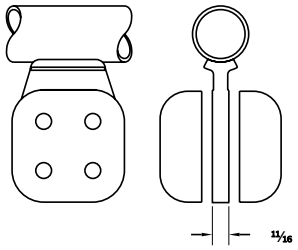


EHV connectors

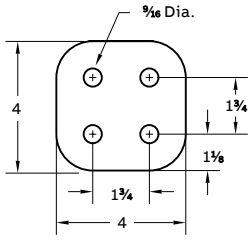
Type WAY-CF and WAY-90-CF

Type WAY-CF – Weld tee connector, pipe run to flat tap

Cat. no.	SPS (in.)
EH-3886	1–2½
EH-3887	3–6



Normally used with a pad shield (sold separately – see page 141).

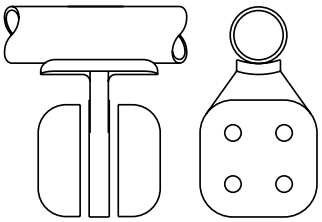


4" 4-Hole NEMA flat

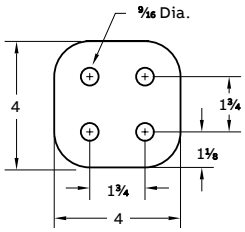
All pads are finished on both sides.

Type WAY-90-CF – Weld tee connector, pipe run to flat tap

Cat. no.	SPS (in.)
EH-3896	1–2½
EH-3897	3–6



Normally used with a pad shield (sold separately – see page 141).



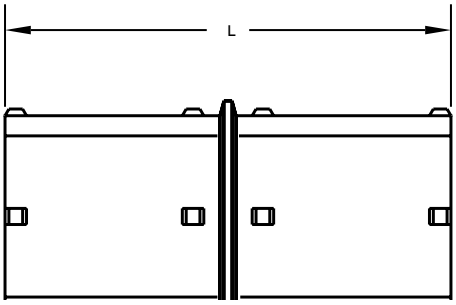
4" 4-Hole NEMA flat

All pads are finished on both sides.

EHV connectors

Type WALB-CF, WAKA-90-CF and WAKA-45-CF

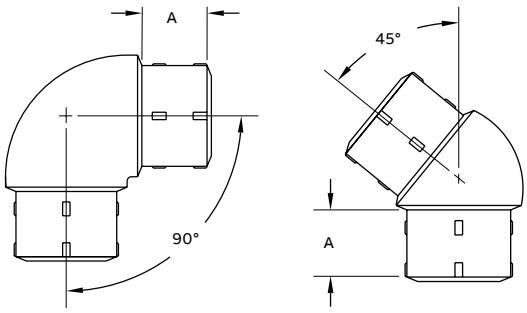
Type WALB-CF – Weld coupler, pipe to pipe



Cat. no.	Run SPS (in.)	Tap SPS (in.)	L (in.)
EH-3150	2	2	4½
EH-3151	2½	2	5
EH-3152		2½	5½
EH-3153	3	2	5¼
EH-3154		2½	5¾
EH-3155		3	6¼
EH-3156	3½	2	5¾
EH-3157		2½	6¼
EH-3158		3	6¾
EH-3159		3½	7¼
EH-3160	4	2	6⅜
EH-3161		2½	6⅞
EH-3162		3	7⅜
EH-3163		3½	7⅞
EH-3164		4	8⅜
EH-3165	5	2	7⅜
EH-3166		2½	7⅞
EH-3167		3	8⅜
EH-3168		3½	8⅞
EH-3169		4	9⅜
EH-3170		5	10⅜
EH-3171	6	2	8⅜
EH-3172		2½	8⅞
EH-3173		3	9⅜
EH-3174		3½	9⅞
EH-3175		4	10⅜
EH-3176		5	11⅜
EH-3177		6	12⅜

For schedule 80 pipe, add "-EH" to catalog number; e.g. EH-3177-EH.

Type WAKA-90-CF and WAKA-45-CF – Weld elbow, pipe to pipe



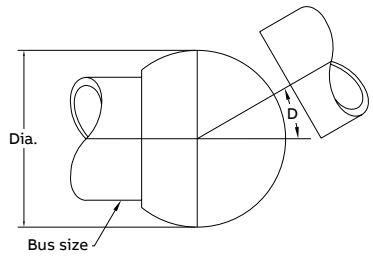
Cat. no.			
90°	45°	SPS (in.)	A (in.)
EH-3380	EH-3370	2	3
EH-3381	EH-3371	2½	
EH-3382	EH-3372	3	
EH-3383	EH-3373	3½	4
EH-3384	EH-3374	4	5
EH-3385	EH-3375	5	
EH-3386	EH-3376	6	6

For schedule 80 pipe, add "-EH" to catalog number; e.g. EH-3380-EH.
For other configurations, consult customer service.

EHV connectors

Type WASC-CF , WAFG-CR-CF and WAFG-CF

Type WASC-CF – Weld spherical coupler, pipe to pipe

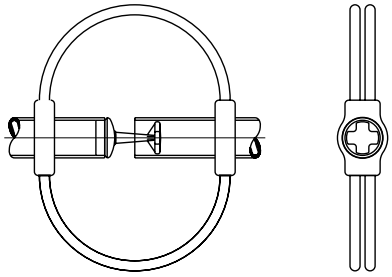


This connector is especially useful where site grading precludes a flat yard or where property lines require the turning of odd horizontal angles. Also suitable for sub-EHV voltages. Installed at 500 kV.

Cat. no.	SPS bus size (in.)	Dia (in.)	D max°*
EH-900-2	2	8	134
EH-900-2.5	2½		127
EH-900-3	3		117
EH-900-3.5	3½		109
EH-900-4	4		100
EH-900-5	5		81
EH-900-6	6		57

* Indicates maximum angle that can be turned when conductors of same size are coupled. The angle exists in the plane defined by centerlines of the conductors. Angles indicated allow for a minimum of 1½ inches of welding space. One pipe inserts into connector and is keyed in position by connector. Second pipe is brought into position and welded to external surface of ball. This connector can also be used as a reducer. Order large bus size and weld smaller bus to external surface of sphere. Consult customer service for more information.

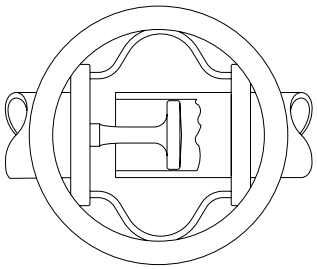
Type WAFG-CR-CF – Weld expansion coupler, pipe to pipe (500 kV nominal system voltage)



Cat. no.	SPS (in.)	No. of conductors*
EH-3401	2	4
EH-3402	2½	
EH-3403	3	
EH-3404	3½	
EH-3405	4	
EH-3406	5	6
EH-3407	6	

* Conductors are aluminum 795 AAC.
Use chart GA-735 on technical reference page 174 for installation.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-3407-EH.

Type WAFG-CF – Weld expansion coupler, pipe to pipe (345 kV nominal system voltage)



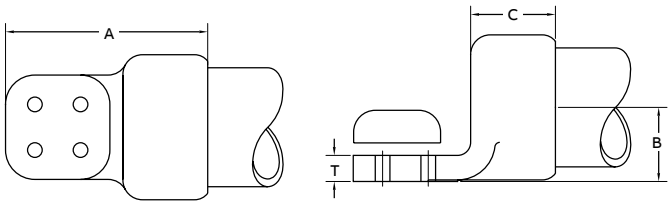
Cat. no.	SPS (in.)
EH-3600	2
EH-3601	2½
EH-3602	3
EH-3603	3½
EH-3604	4
EH-3605	5
EH-3606	6

Use chart GA-735 on technical reference page 174 for installation.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-3600-EH.

EHV connectors

Type WAP-CF and WAP-CT-CF

Type WAP-CF – Weld terminal, pipe to flat

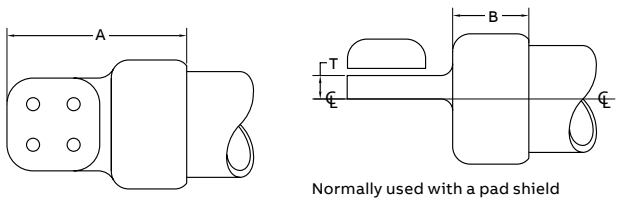


Normally used with a pad shield (sold separately – see page 141).

Cat. no.	SPS (in.)	A (in.)	B (in.)	C (in.)	T (in.)
EH-3001	2	6 1/2	1 1/4	1 3/4	5/8
EH-3002	2 1/2	6 3/4	1 1/2	2	
EH-3003	3	7 1/4	1 3/4	2 1/2	3/4
EH-3004	3 1/2	7 1/2	2	2 3/4	
EH-3005	4	7 3/4	2 1/4	3	1
EH-3006	5	8 1/4	2 3/4	3 1/2	
EH-3007	6	9 1/4	3 1/2	4	

All pads are finished on both sides.

Type WAP-CT-CF – Weld terminal, pipe to flat

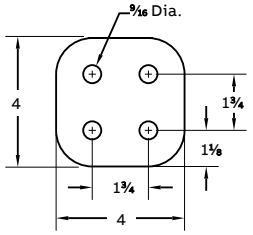


Normally used with a pad shield (sold separately – See page 141).

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
EH-3011	2	6 1/2	1 1/4	5/8
EH-3012	2 1/2	6 3/4	1 1/2	
EH-3013	3	7 1/4	1 3/4	3/4
EH-3014	3 1/2	7 1/2	2	
EH-3015	4	7 3/4	2 1/4	1
EH-3016	5	8 1/4	2 3/4	
EH-3017	6	9 1/4	3 1/2	

All pads are finished on both sides.

Dimensions

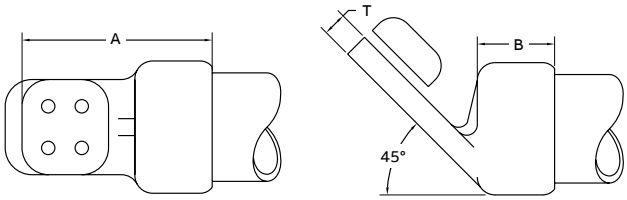


4" 4-Hole NEMA flat

EHV connectors

Type WAP-45-CF and WAP-90-CF

Type WAP-45-CF – 45° Weld terminal, pipe to flat

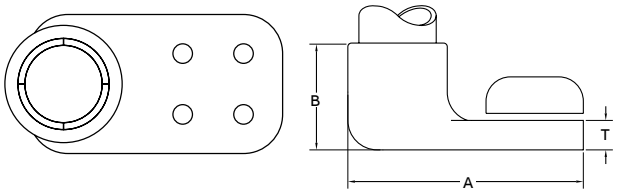


Normally used with a pad shield (sold separately – see page 141).

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
EH-3021	2	6 1/2	1 1/4	5/8
EH-3022	2 1/2	6 3/4	1 1/2	
EH-3023	3	7 1/4	1 3/4	3/4
EH-3024	3 1/2	7 1/2	2	
EH-3025	4	7 3/4	2 1/4	1
EH-3026	5	8 1/4	2 3/4	
EH-3027	6	9 1/4	3 1/2	

All pads are finished on both sides.

Type WAP-90-CF – 90° Weld terminal, pipe to flat

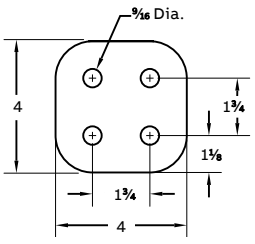


Normally used with a pad shield (sold separately – see page 141).

Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
EH-3429	2	7 7/8	1 1/4	5/8
EH-3430	2 1/2	8	1 1/2	
EH-3431	3	8 3/4	1 3/4	3/4
EH-3432	3 1/2	9 1/4	2	
EH-3433	4	9 3/4	2 1/4	1
EH-3434	5	10 3/4	2 3/4	
EH-3435	6	11 7/8	3 1/2	

All pads are finished on both sides.

Dimensions

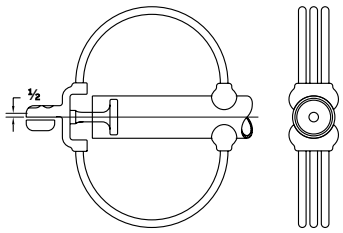


4" 4-Hole NEMA flat

EHV connectors

Type WAFF-CF and WAFF-B-CF

Type WAFF-CF – Weld expansion terminal, pipe to flat (345 kV nominal system voltage)

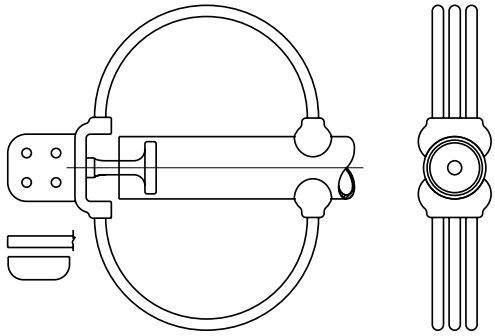


Normally used with a pad shield (sold separately – See page 141).

Cat. no.	SPS (in.)	No. of conductors*
EH-3181	2	4
EH-3182	2½	
EH-3183	3	
EH-3184	3½	
EH-3185	4	
EH-3186	5	6
EH-3187	6	

* Conductors are aluminum 795 AAC.
Use chart GA-735 on general reference page 174 for installation.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-3181-EH.
All pads are finished on both sides.

Type WAFF-B-CF – Weld expansion terminal, pipe to flat (345 kV nominal system voltage)

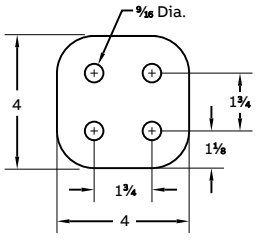


Normally used with a pad shield (sold separately – See page 141).

Cat. no.	SPS (in.)	No. of conductors*
EH-3491	2	4
EH-3492	2½	
EH-3493	3	
EH-3494	3½	
EH-3495	4	
EH-3496	5	6
EH-3497	6	

* Conductors are aluminum 795 AAC.
Use chart GA-735 on technical reference page 174 for installation.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-3491-EH.
All pads are finished on both sides.

Dimensions

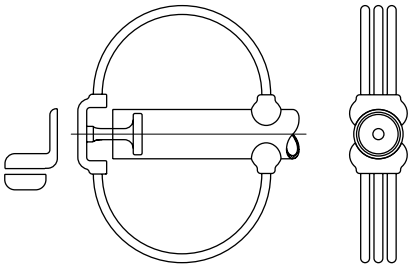


4" 4-Hole NEMA flat

EHV connectors

Type WAFF-A-CF and WAFF-CT-CR-CF

Type WAFF-A-CF – Weld expansion terminal with field-adjustable pad, pipe to flat (345 kV nominal system voltage)

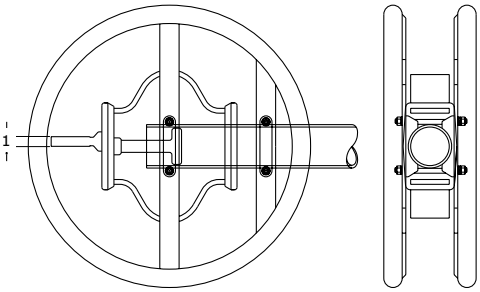


Normally used with a pad shield (sold separately – see page 141).

Cat. no.	SPS (in.)	Number of conductors*
EH-3454	2	4
EH-3455	2½	
EH-3456	3	
EH-3457	3½	
EH-3458	4	
EH-3459	5	6
EH-3460	6	

* Conductors are aluminum 795 AAC.
Maximum allowable adjustment, centerline conductor to surface of switch, ±4".
Use chart GA-735 on technical reference page 174 for installation.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-3454-EH.
All pads are finished on both sides.

Type WAFF-CT-CR-CF – Weld expansion coupler, pipe to pipe (500 kV nominal system voltage)

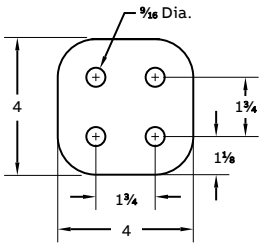


Normally used with a pad shield (sold separately – see page 141).

Cat. no.	SPS (in.)
EH-3531	2
EH-3532	2½
EH-3533	3
EH-3534	3½
EH-3535	4
EH-3536	5
EH-3537	6

Use chart GA-735 on technical reference page 174 for installation.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-3537-EH.
All pads are finished on both sides.

Dimensions

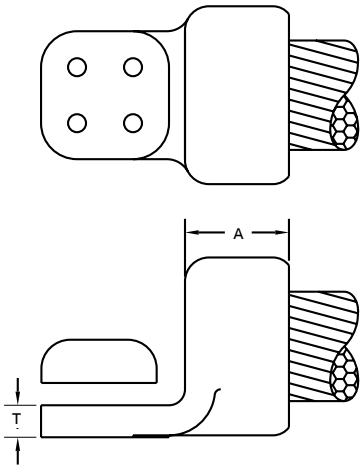


4" 4-Hole NEMA flat

EHV connectors

Type WAGL, -45, -90, -CF – Weld terminal, cable to flat, straight, 45°, 90°

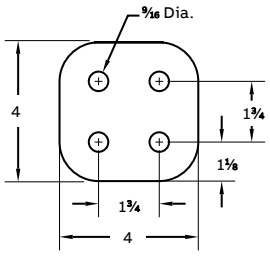
Type WAGL, -45, -90, -CF – Weld terminal, cable to flat, straight, 45°, 90°



Cat. no.			Cable range		
Straight	45°	90°	AAC (kcmil)	A (in.)	T (in.)
EH-3607	EH-3625	EH-3642	700–715	2	½
EH-3608	EH-3626	EH-3643	750		
EH-3609	EH-3627	EH-3644	795–800		
EH-3610	EH-3628	EH-3645	874		
EH-3611	EH-3629	EH-3646	954		
EH-3612	EH-3630	EH-3647	1000–1033		
EH-3613	EH-3631	EH-3648	1113		
EH-3614	EH-3632	EH-3649	1192		⅝
EH-3615	EH-3633	EH-3650	1272		
EH-3616	EH-3634	EH-3651	1590		
EH-3617	EH-3635	EH-3652	2300	2½	¾
EH-3618	EH-3636	EH-3653	2500		
EH-3619	EH-3637	EH-3654	3000		
EH-3620	EH-3638	EH-3655	3500	3	1
EH-3621	EH-3639	EH-3656	4000		

Normally used with a pad shield (sold separately – See page 141).
All pads are finished on both sides.

Dimensions

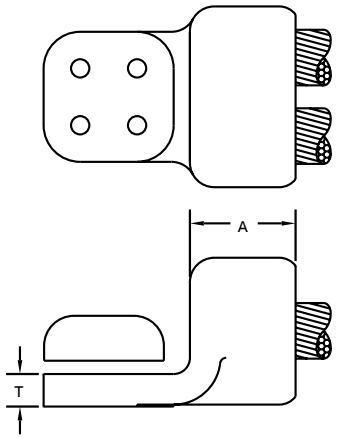


4" 4-Hole NEMA flat

EHV connectors

Type WAGL-2, -45, -90, -CF – Weld terminal, two cables to flat, straight, 45°, 90°

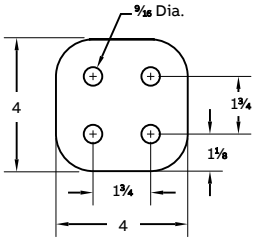
Type WAGL-2, -45, -90, -CF – Weld terminal, two cables to flat, straight, 45°, 90°



Cat. no.			Cable range		
Straight	45°	90°	AAC (kcmil)	A (in.)	T (in.)
EH-3659	EH-3676	EH-3692	700–715	2	5/8
EH-3660	EH-3677	EH-3693	750		
EH-3661	EH-3678	EH-3694	795–800		
EH-3662	EH-3679	EH-3695	874		
EH-3663	EH-3680	EH-3696	954		
EH-3664	EH-3681	EH-3697	1000–1033		
EH-3665	EH-3682	EH-3698	1113		
EH-3666	EH-3683	EH-3699	1192		3/4
EH-3667	EH-3684	EH-3700	1272		
EH-3668	EH-3685	EH-3701	1590		
EH-3669	EH-3686	EH-3702	2300	2 1/2	1
EH-3670	EH-3687	EH-3703	2500		
EH-3671	EH-3688	EH-3704	3000		
EH-3672	EH-3689	EH-3705	3500	3	
EH-3673	EH-3690	EH-3706	4000		

Normally used with a pad shield (sold separately – see page 141).
All pads are finished on both sides.

Dimensions

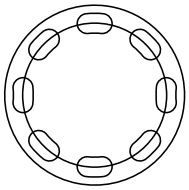


4" 4-Hole NEMA flat

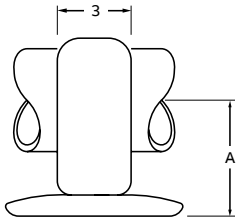
EHV connectors

Type WAXB-CF, WAXP-CF and WAXC-CF

Type WAXB-CF – Weld or slide bus support, pipe to insulator



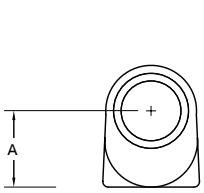
Slots: 5" BC 11/16 x 7/8

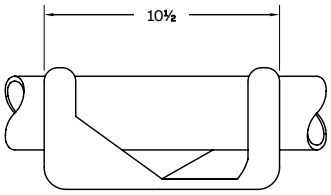


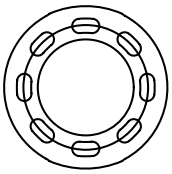
Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
EH-3070	2	2 3/4
EH-3071	2 1/2	3 1/8
EH-3072	3	3 5/8
EH-3073	3 1/2	4
EH-3074	4	4 1/2
EH-3075	5	5
EH-3076	6	5 1/2

Stainless steel anti-chatter spring and galvanized hardware for mounting to insulator are supplied.

Type WAXP-CF – Weld or slide bus support, pipe to insulator





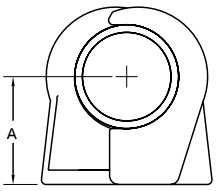


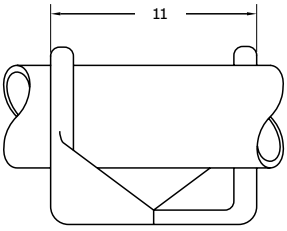
Slots: 5" BC 11/16 x 7/8

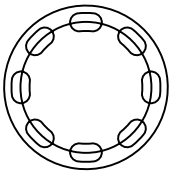
Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
EH-3709	2	2 3/4
EH-3710	2 1/2	3 1/8
EH-3711	3	3 5/8
EH-3712	3 1/2	4
EH-3713	4	4 1/2
EH-3714	5	5
EH-3715	6	5 1/2

Stainless steel anti-chatter spring and galvanized hardware for mounting to insulator are supplied.

Type WAXC-CF – Weld or slide bus support, hook-on style, pipe to insulator







Slots: 5" BC 11/16 x 7/8

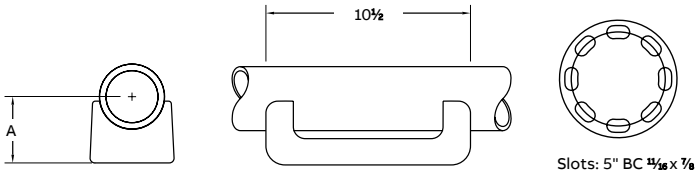
Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
EH-3440	2	2 3/4
EH-3441	2 1/2	3 1/8
EH-3442	3	3 5/8
EH-3443	3 1/2	4
EH-3444	4	4 1/2
EH-3445	5	5
EH-3446	6	5 1/2

Stainless steel anti-chatter spring and galvanized hardware for mounting to insulator are supplied.

EHV connectors

Type WAST-CF, WAXY-CF and WAFS-CF

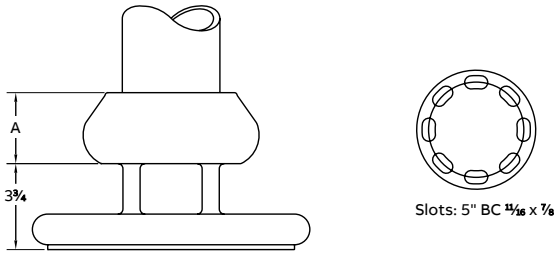
Type WAST-CF – Weld slide bus support, pipe to insulator



Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
EH-3410	2	2¾
EH-3411	2½	3⅛
EH-3412	3	3⅝
EH-3413	3½	4
EH-3414	4	4½
EH-3415	5	5
EH-3416	6	5½

Stainless steel anti-chatter spring and galvanized hardware for mounting to insulator are supplied.

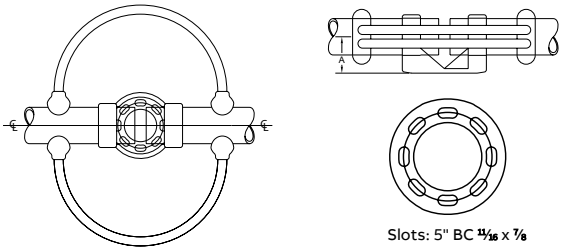
Type WAXY-CF – Weld vertical bus support, pipe to insulator



Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
EH-3100	2	1¾
EH-3101	2½	2
EH-3102	3	2½
EH-3103	3½	
EH-3104	4	
EH-3105	5	3
EH-3106	6	

Galvanized hardware for mounting to insulator is supplied.

Type WAFS-CF – Weld expansion bus support, pipe to insulator (345 kV nominal system voltage)



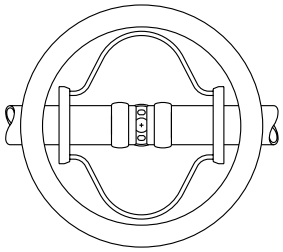
Cat. no.	SPS (in.)	A (in.)	Number of conductors*
5" Bolt circle			
EH-3140	2	2¾	4
EH-3141	2½	3⅛	
EH-3142	3	3⅝	
EH-3143	3½	4	
EH-3144	4	4½	
EH-3145	5	5	6
EH-3146	6	5½	

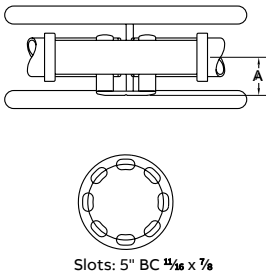
End caps, stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.
* Conductors are aluminum 795 AAC.
Use chart GA-796 on technical reference page 175 for installation.

EHV connectors

Type WAFS-CR-CF, WP-CF and WVM-CF

Type WAFS-CR-CF – Weld expansion bus support, pipe to insulator (500 kV nominal system voltage)

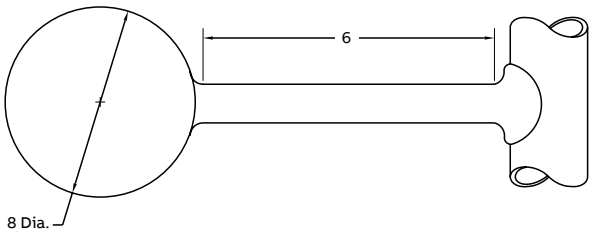




Cat. no.	SPS (in.)	A (in.)
5" Bolt circle		
EH-3515	2	2¾
EH-3516	2½	3⅛
EH-3517	3	3⅝
EH-3518	3½	4
EH-3519	4	4½
EH-3520	5	5
EH-3521	6	5½

End caps, stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.
Use chart GA-796 on technical reference page 175 for installation.

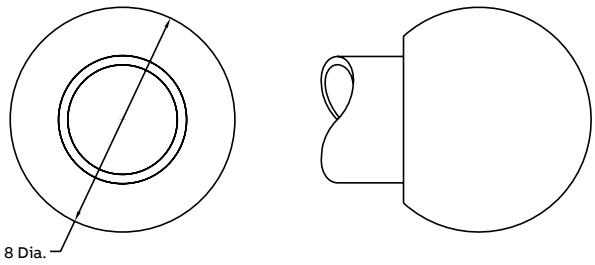
Type WP-CF – Weld ground stud



Cat. no.	SPS (in.)
EH-3061	2
EH-3062	2½
EH-3063	3
EH-3064	3½
EH-3065	4
EH-3066	5
EH-3067	6

For other ball diameter sizes, consult customer service.

Type WVM-CF – Weld corona bell, recommended for 345 kV and 500 kV



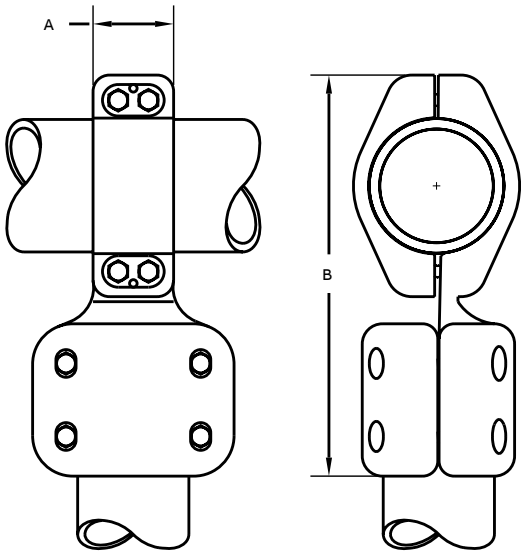
Cat. no.	SPS (in.)
EH-900-2	2
EH-900-2.5	2½
EH-900-3	3
EH-900-3.5	3½
EH-900-4	4
EH-900-5	5
EH-900-6	6

For other ball diameter sizes, consult customer service.

EHV connectors

Type AVA-CF and AVAA-CF

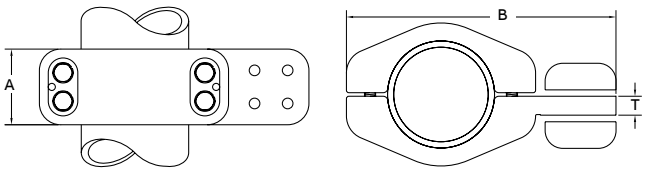
Type AVA-CF – Bolted tee connector, pipe run to pipe tap



Cat. no.	Run SPS (in.)	Tap SPS (in.)	A (in.)	B (in.)
EH-1061	2	2	3½	9¾
EH-1062	2½	2	3½	10¼
EH-1063		2½		
EH-1064	3	2	4	11⅜
EH-1065		2½		
EH-1066		3		11⅞
EH-1067	3½	2	4	11¾
EH-1068		2½		
EH-1069		3		12¼
EH-1070		3½		
EH-1071	4	2	4	12⅜
EH-1072		2½		
EH-1073		3		12⅞
EH-1074		3½		
EH-1075		4		
EH-1076	5	2	4	13½
EH-1077		2½		
EH-1078		3		14
EH-1079		3½		
EH-1080		4		
EH-1081		5	5½	15½
EH-1082	6	2	4	14½
EH-1083		2½		
EH-1084		3		15
EH-1085		3½		
EH-1086		4		
EH-1087		5	5½	16½
EH-1088		6		

Available in various angles; consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

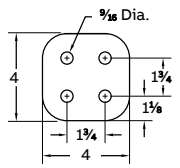
Type AVAA-CF – Bolted tee connector, pipe run to flat tap



Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
EH-1190	2	3½	10½	⅝
EH-1191	2½		11	
EH-1192	3	4	12⅛	¾
EH-1193	3½		12½	
EH-1194	4		13⅛	
EH-1195	5		14¼	1
EH-1196	6		15¼	

Normally used with a pad shield (sold separately – see page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



4" 4-Hole NEMA flat

EHV connectors

Type AVB-CF – Bolted tee connector, pipe run to cable tap

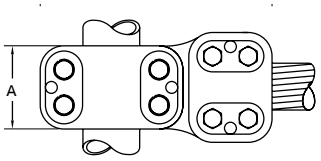
Type AVB-CF – Bolted tee connector, pipe run to cable tap

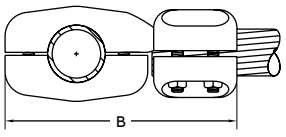
		Cable tap			
Cat. no.	Run SPS (in.)	AAC (kcmil)	ACSR (kcmil)	A (in.)	B (in.)
EH-1484-A	2	715–800	715	3½	10
EH-1484-B		874–954	795–900		
EH-1485-A		1000–1272	954–1113		
EH-1485-B		1351–1510	1272		
EH-1486-A		1590	1431		10½
EH-1486-B		2000	1590–1780		
EH-1486-C		2300	2167		
EH-1486-D		2500	–		
EH-1487-A	2½	715–800	715	3½	10½
EH-1487-B		874–954	795–900		
EH-1488-A		1000–1272	954–1113		
EH-1488-B		1351–1510	1272		
EH-1489-A		1590	1431		11
EH-1489-B		2000	1590–1780		
EH-1489-C		2300	2167		
EH-1489-D		2500	–		
EH-1490-A	3	715–800	715	4	11⅜
EH-1490-B		874–954	795–900		
EH-1491-A		1000–1272	954–1113		
EH-1491-B		1351–1510	1272		
EH-1492-A		1590	1431		11⅞
EH-1492-B		2000	1590–1780		
EH-1492-C		2300	2167		
EH-1492-D		2500	–		
EH-1493-A	3½	715–800	715	4	12
EH-1493-B		874–954	795–900		
EH-1494-A		1000–1272	954–1113		
EH-1494-B		1351–1510	1272		
EH-1495-A		1590	1431		12½
EH-1495-B		2000	1590–1780		
EH-1495-C		2300	2167		
EH-1495-D		2500	–		
EH-1496-A		3000	–		
EH-1496-B		3500	–		
EH-1496-C		4000	–		

		Cable tap			
Cat. no.	Run SPS (in.)	AAC (kcmil)	ACSR (kcmil)	A (in.)	B (in.)
EH-1497-A	4	715–800	715	4	12⅝
EH-1497-B		874–954	795–900		
EH-1498-A		1000–1272	954–1113		
EH-1498-B		1351–1510	1272		
EH-1499-A		1590	1431		13⅛
EH-1499-B		2000	1590–1780		
EH-1499-C		2300	2167		
EH-1499-D		2500	–		
EH-1500-A		3000	–		
EH-1500-B		3500	–		
EH-1500-C		4000	–		
EH-1501-A	5	715–800	715	4	13¾
EH-1501-B		874–954	795–900		
EH-1502-A		1000–1272	954–1113		
EH-1502-B		1351–1510	1272		
EH-1503-A		1590	1431		14¼
EH-1503-B		2000	1590–1780		
EH-1503-C		2300	2167		
EH-1503-D		2500	–		
EH-1504-A		3000	–		
EH-1504-B		3500	–		
EH-1504-C		4000	–		
EH-1506-A	6	715–800	715	4	14¾
EH-1506-B		874–954	795–900		
EH-1507-A		1000–1272	954–1113		
EH-1507-B		1351–1510	1272		
EH-1508-A		1590	1431		15¼
EH-1508-B		2000	1590–1780		
EH-1508-C		2300	2167		
EH-1508-D		2500	–		
EH-1509-A		3000	–		
EH-1509-B		3500	–		
EH-1509-C		4000	–		

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions





EHV connectors

Type AVC-CF – Bolted tee connector, cable run to cable tap

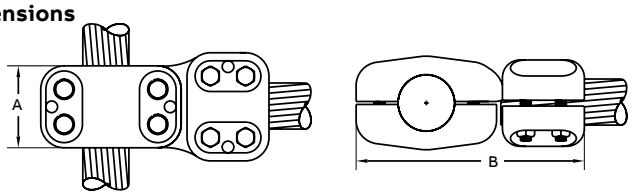
Type AVC-CF – Bolted tee connector, cable run to cable tap

	Run		Cable tap			
Cat. no.	AAC (kcmil)	ACSR (kcmil)	AAC (kcmil)	ACSR (kcmil)	A (in.)	B (in.)
EH-1515-A-A	715–800	715	715–800	715	3½	8¼
EH-1515-A-B			874–954	795–900		
EH-1515-B-A	874–954	795–900	715–800	715	3½	8¼
EH-1515-B-B			874–954	795–900		
EH-1516-A-A	1000–1272	954–1113	715–800	715	3½	8¾
EH-1516-A-B			874–954	795–900		
EH-1517-A-A			1000–1272	954–1113		
EH-1517-A-B			1351–1510	1272		
EH-1516-B-A	1351–1510	1272	715–800	715	3½	8¾
EH-1516-B-B			874–954	795–900		
EH-1517-B-A			1000–1272	954–1113		
EH-1517-B-B			1351–1510	1272		
EH-1518-A-A	1590	1431	715–800	715	4	8¾
EH-1518-A-B			874–954	795–900		
EH-1519-A-A			1000–1272	954–1113		
EH-1519-A-B			1351–1510	1272		
EH-1520-A-A			1590	1431		9½
EH-1520-A-B			2000	1590–1780		
EH-1520-A-C			2300	2167		
EH-1520-A-D			2500	–		
EH-1518-B-A	2000	1590–1780	715–800	715	4	8¾
EH-1518-B-B			874–954	795–900		
EH-1519-B-A			1000–1272	954–1113		
EH-1519-B-B			1351–1510	1272		
EH-1520-B-A			1590	1431		9½
EH-1520-B-B			2000	1590–1780		
EH-1520-B-C			2300	2167		
EH-1520-B-D			2500	–		
EH-1518-C-A	2300	2167	715–800	715	4	8¾
EH-1518-C-B			874–954	795–900		
EH-1519-C-A			1000–1272	954–1113		
EH-1519-C-B			1351–1510	1272		
EH-1520-C-A			1590	1431		9¼
EH-1520-C-B			2000	1590–1780		
EH-1520-C-C			2300	2167		
EH-1520-C-D			2500	–		9⅛
EH-1518-D-A	2500	–	715–800	715	4	8¾
EH-1518-D-B			874–954	795–900		
EH-1519-D-A			1000–1272	954–1113		
EH-1519-D-B			1351–1510	1272		
EH-1520-D-A			1590	1431		9¼
EH-1520-D-B			2000	1590–1780		
EH-1520-D-C			2300	2167		
EH-1520-D-D			2500	–		

	Run		Cable tap			
Cat. no.	AAC (kcmil)	ACSR (kcmil)	AAC (kcmil)	ACSR (kcmil)	A (in.)	B (in.)
EH-1521-A-A	3000	–	715–800	715	4	9¾
EH-1521-A-B			874–954	795–900		
EH-1522-A-A			1000–1272	954–1113		
EH-1522-A-B			1351–1510	1272		
EH-1523-A-A			1590	1431		10¼
EH-1523-A-B			2000	1590–1780		
EH-1523-A-C			2300	2167		
EH-1523-A-D			2500	–		
EH-1524-A-A			3000	–		
EH-1524-A-B			3500	–		
EH-1524-A-C			4000	–		
EH-1521-B-A	3500	–	715–800	715	4	9¾
EH-1521-B-B			874–954	795–900		
EH-1522-B-A			1000–1272	954–1113		
EH-1522-B-B			1351–1510	1272		
EH-1523-B-A			1590	1431		10¼
EH-1523-B-B			2000	1590–1780		
EH-1523-B-C			2300	2167		
EH-1523-B-D			2500	–		
EH-1524-B-A			3000	–		
EH-1524-B-B			3500	–		
EH-1524-B-C			4000	–		
EH-1521-C-A	4000	–	715–800	715	4	9¾
EH-1521-C-B			874–954	795–900		
EH-1522-C-A			1000–1272	954–1113		
EH-1522-C-C			1351–1510	1272		
EH-1523-C-A			1590	1431		10¼
EH-1523-C-B			2000	1590–1780		
EH-1523-C-C			2300	2167		
EH-1523-C-D			2500	–		
EH-1524-C-A			3000	–		
EH-1524-C-B			3500	–		
EH-1524-C-C			4000	–		

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions



EHV connectors

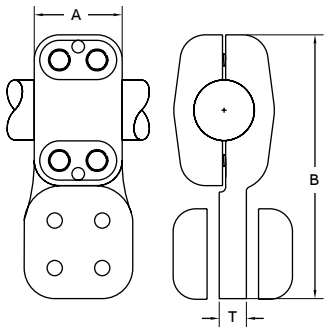
Type AVD-CF and AVLA-CF

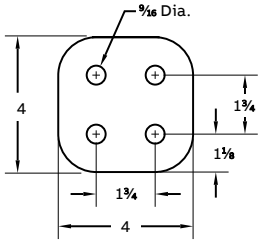
Type AVD-CF – Bolted tee connector, pipe run to flat tap

	Cable tap				
Cat. no.	AAC (kcmil)	ACSR (kcmil)	A (in.)	B (in.)	T (in.)
EH-1320-A	715–800	715	3½	8¼	½
EH-1320-B	874–954	795–900			
EH-1321-A	1000–1272	954–1113		8¾	⅝
EH-1321-B	1351–1510	1272			
EH-1322-A	1590	1431	4	9¼	¾
EH-1322-B	2000	1780			
EH-1322-C	2300	2167			
EH-1322-D	2500	–			
EH-1323-A	3000	–		10	
EH-1323-B	3500	–			
EH-1323-C	4000	–			

Normally used with a pad shield (sold separately – See page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions





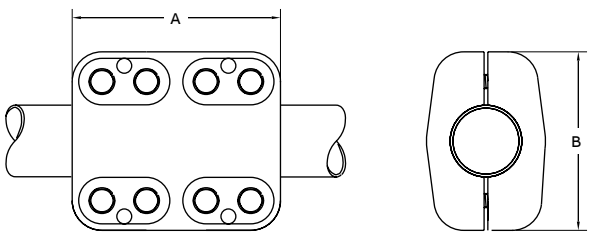
4" 4-Hole NEMA flat

Type AVLA-CF – Bolted coupler, pipe to pipe

Cat. no.	SPS (in.)	A (in.)	B (in.)
EH-1010	2	7½	6¼
EH-1012	2½		6¾
EH-1015	3	8½	7⅞
EH-1019	3½		8¼
EH-1024	4		8⅞
EH-1030	5	11½	10
EH-1037	6		11

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

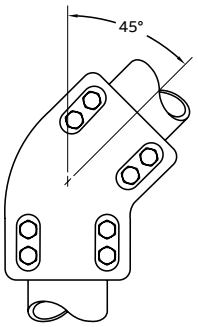
Dimensions



EHV connectors

Type AVKA-45-CF, AVKA-90-CF and AFG-CF

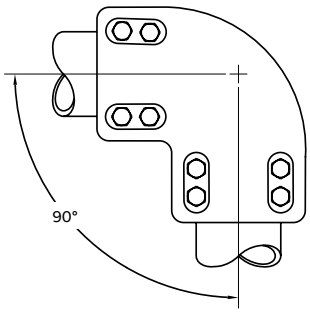
Type AVKA-45-CF – 45° bolted elbow, pipe to pipe



Cat. no.	SPS (in.)
EH-1539	2
EH-1540	2½
EH-1541	3
EH-1542	3½
EH-1543	4
EH-1544	5
EH-1545	6

For other configurations, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

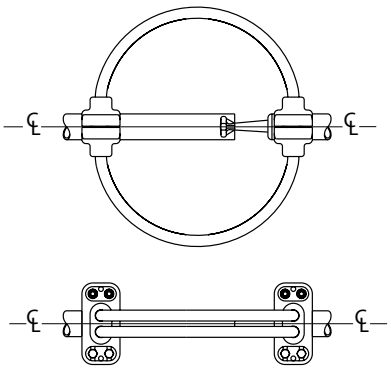
Type AVKA-90-CF – 90° bolted elbow, pipe to pipe



Cat. no.	SPS (in.)
EH-1562	2
EH-1563	2½
EH-1564	3
EH-1565	3½
EH-1566	4
EH-1567	5
EH-1568	6

For other configurations, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type AFG-CF – Bolted expansion coupler, pipe to pipe (345 kV nominal system voltage)



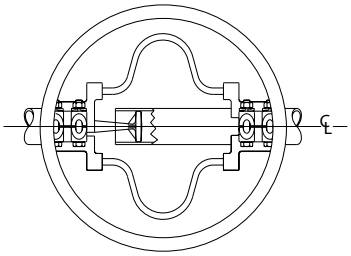
Cat. no.	SPS (in.)	Number of conductors*
EH-1551	2	4
EH-1552	2½	
EH-1553	3	
EH-1554	3½	
EH-1555	4	
EH-1556	5	6
EH-1557	6	

For schedule 80 pipe, add "EH" to catalog number; e.g. EH-1551-EH. * Conductors are aluminum 795 AAC. Use chart GA-735 on technical reference page 174 for installation.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

EHV connectors

Type AFG-CR-CF and AVP-CT-CF

Type AFG-CR-CF – Bolted expansion coupler, pipe to pipe (500 kV nominal system voltage)



Cat. no.	SPS (in.)
EH-1672	2
EH-1673	2½
EH-1674	3
EH-1675	3½
EH-1676	4
EH-1677	5
EH-1678	6

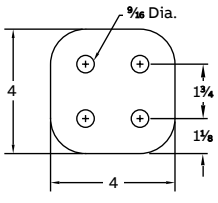
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-1672-EH.
Use chart GA-735 on technical reference page 174 for installation.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type AVP-CT-CF – Bolted terminal, pipe to flat

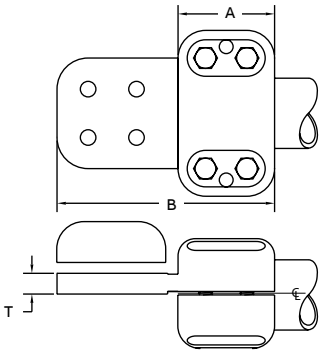
Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
EH-1000	2	3½	8	⅝
EH-1001	2½			
EH-1002	3	4	8½	¾
EH-1003	3½			
EH-1004	4			
EH-1005	5	5½	10	1
EH-1006	6			

Normally used with a pad shield (sold separately – See page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



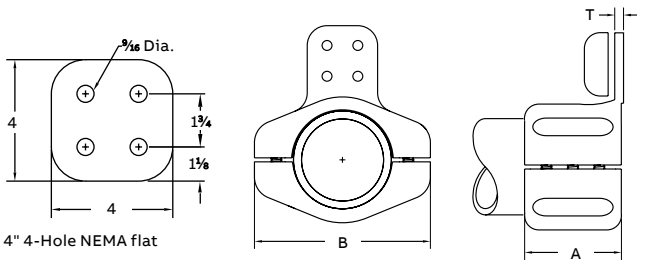
4" 4-Hole NEMA flat



EHV connectors

Type AVP-90-CF, AFF-CT-CF and AFF-CT-CR-CF

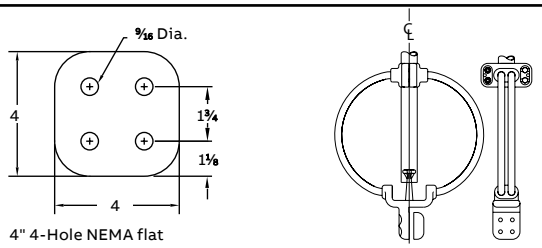
Type AVP-90-CF – 90° Bolted terminal, pipe to flat



Cat. no.	SPS (in.)	A (in.)	B (in.)	T (in.)
EH-1572	2	3½	8	⅝
EH-1573	2½			
EH-1574	3	4	8½	¾
EH-1575	3½			
EH-1576	4			
EH-1577	5	5½	10	1
EH-1578	6			

Normally used with a pad shield (sold separately – see page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

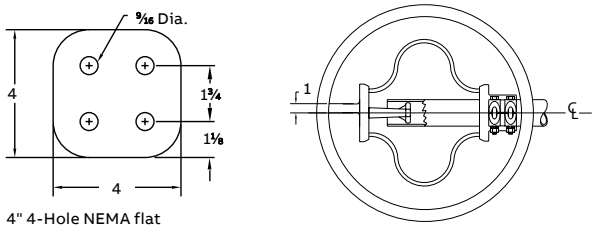
Type AFF-CT-CF – Bolted expansion terminal, pipe to flat (345 kV nominal system voltage)



Cat. no.	SPS (in.)	Number of conductors*
EH-1631	2	4
EH-1632	2½	
EH-1633	3	
EH-1634	3½	
EH-1635	4	
EH-1636	5	6
EH-1637	6	

* Conductors are aluminum 795 AAC.
Normally used with a pad shield (sold separately – see page 141).
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-1631-EH.
Use chart GA-735 on technical reference page 174 for installation.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type AFF-CT-CR-CF – Bolted expansion terminal, pipe to flat (500 kV nominal system voltage)



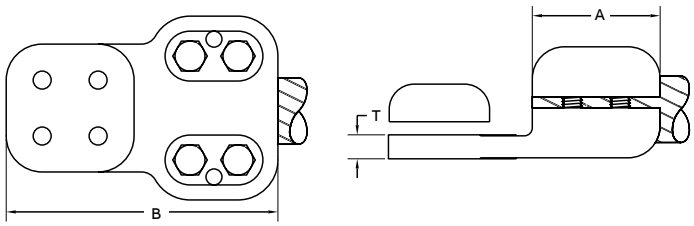
Cat. no.	SPS (in.)
EH-1708	2
EH-1709	2½
EH-1710	3
EH-1711	3½
EH-1712	4
EH-1713	5
EH-1714	6

For schedule 80 pipe, add "EH" to catalog number; e.g. EH-1708-EH.
Use chart GA-735 on technical reference page 174 for installation.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

EHV connectors

Type AGL-CF and AGL-2-CF

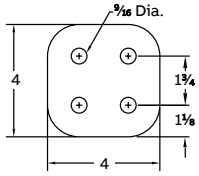
Type AGL-CF – Bolted terminal, cable to flat



Cat. no.	Cable AAC (kcmil)	Cable ACSR (kcmil)	A (in.)	B (in.)	T (in.)
EH-1290-A	715–800	715	4	8½	½
EH-1290-B	874–954	795–900			
EH-1291-A	1000–1272	954–1113			⅝
EH-1291-B	1351–1510	1272			
EH-1292-A	1590	1431	4½	9	¾
EH-1292-B	2000	1590–1780			
EH-1292-C	2300	2167			
EH-1292-D	2500	–			
EH-1293-A	3000	–			⅞
EH-1293-B	3500	–			
EH-1293-C	4000	–			

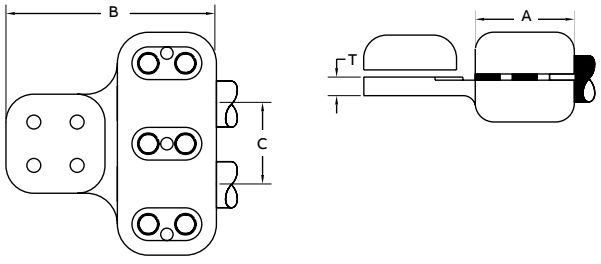
Normally used with a pad shield (sold separately – see page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



4" 4-Hole NEMA flat

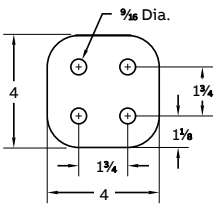
Type AGL-2-CF – Bolted terminal, two cables to flat



Cat. no.	Cable AAC (kcmil)	Cable ACSR (kcmil)	A (in.)	B (in.)	C (in.)	T (in.)
EH-1531-A	715–800	715	4	8½	2¼	¾
EH-1531-B	874–954	795–900				
EH-1532-A	1000–1272	954–1113			3¼	
EH-1532-B	1351–1510	1272				
EH-1533-A	1590	1431	4½	9		⅞
EH-1533-B	2000	1590–1780				
EH-1533-C	2300	2167				
EH-1533-D	2500	–				
EH-1534-A	3000	–				1
EH-1534-B	3500	–				
EH-1534-C	4000	–				

Normally used with a pad shield (sold separately – see page 141).
All pads are finished on both sides.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Dimensions

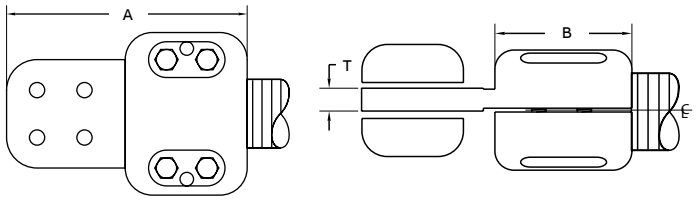


4" 4-Hole NEMA flat

EHV connectors

Type AVIE-CF and AVXE-CF

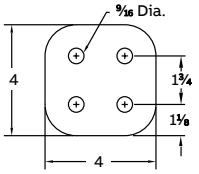
Type AVIE-CF – Bolted stud connector, stud to flat



Cat. no.	Stud	A (in.)	B (in.)	T (in.)
EH-1234	1 1/8–12	8	2 3/4	5/8
EH-1235	1 1/4–12			
EH-1236	1 1/2–12			
EH-1240	1 3/4–12			7/8
EH-1237	2–12			
EH-1238	2 1/2–12	8 1/2	3	1
EH-1239	3–12			

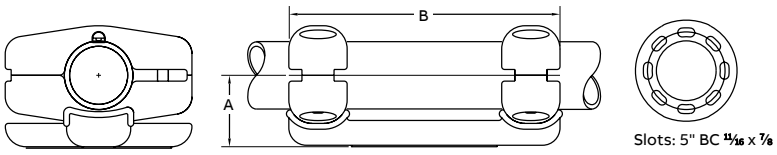
Normally used with a pad shield (sold separately – see page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



4" 4-Hole NEMA flat

Type AVXE-CF – Bolted bus support, clamp or slip fit, pipe to insulator



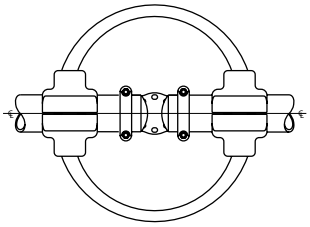
Cat. no.	SPS (in.)	A (in.)	B (in.)
5" Bolt circle			
EH-1170	2	2 3/4	11
EH-1171	2 1/2	3 1/8	11 1/2
EH-1172	3	3 5/8	
EH-1173	3 1/2	4	
EH-1174	4	4 1/2	
EH-1175	5	5	
EH-1176	6	5 1/2	

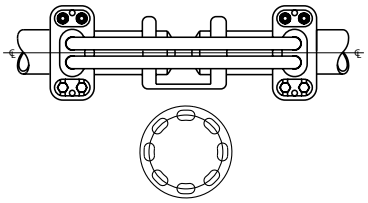
Stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

EHV connectors

Type AFS-CF and AFS-CR-CF

Type AFS-CF – Bolted expansion bus support, pipe to insulator (345 kV nominal system voltage)



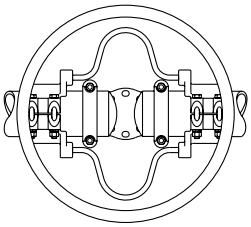


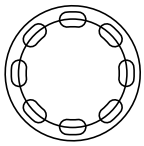
Slots: 5" BC 11/16 x 7/8

Cat. no.	SPS (in.)	No. of conductors*
5" Bolt circle		
EH-1248	2	4
EH-1249	2½	4
EH-1250	3	4
EH-1251	3½	4
EH-1252	4	4
EH-1253	5	6
EH-1254	6	6

* Conductors are aluminum 795 AAC.
End caps, stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-1248-EH.
Use chart GA-796 on technical reference page 175 for installation.
Connector bus height is in accordance with NEMA standard CC 1.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type AFS-CR-CF – Bolted expansion bus support, pipe to insulator (500 kV nominal system voltage)





Slots: 5" BC 11/16 x 7/8

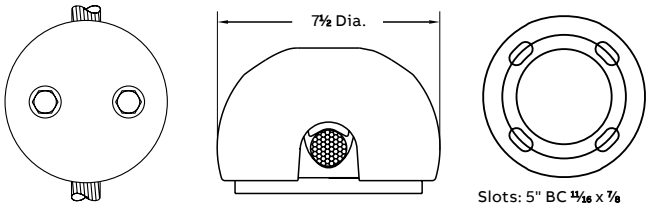
Cat. no.	SPS (in.)
5" Bolt circle	
EH-1716	2
EH-1717	2½
EH-1718	3
EH-1719	3½
EH-1720	4
EH-1721	5
EH-1722	6

End caps, stainless steel anti-chatter springs and galvanized hardware for mounting to insulator are supplied.
For schedule 80 pipe, add "EH" to catalog number; e.g. EH-1716-EH.
Use chart GA-796 on technical reference page 175 for installation.
Connector bus height is in accordance with NEMA standard CC 1.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

EHV connectors

Type AVXA-CF and AVXA-2-CF

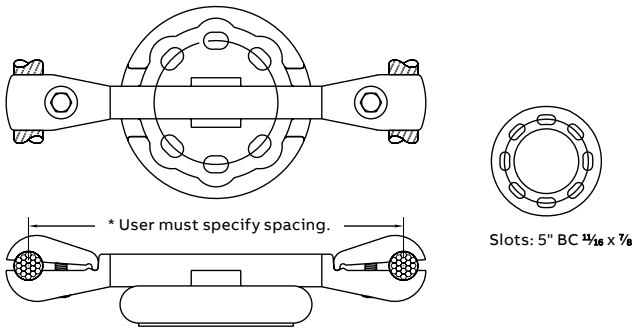
Type AVXA-CF – Bolted bus support, cable to insulator



Cat. no.	Cable diameter (in.) Min.	Max.	Cable range AAC (kcmil)	ACSR (kcmil)
5" Bolt Circle				
EH-1263	.974	1.258	715–1258	636–1033
EH-1263-1	1.259	1.454	1272–1590	1113–1510
EH-1264	1.459	1.630	1600–2000	1510–1780
EH-1264-1	1.729	1.823	2250–2500	–

Consult customer service for other available sizes.
Galvanized hardware for mounting to insulator is supplied.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type AVXA-2-CF – Bolted bus support, two cables to insulator



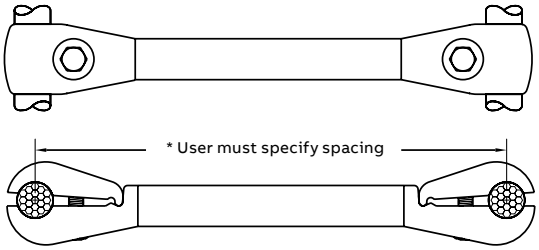
Cat. no.	Cable AAC (kcmil)	ACSR (kcmil)	Min. spacing (in.)*
5" Bolt circle			
EH-1400	550–800	556–715	12
EH-1401	874–1000	795–900	
EH-1403	1000–1113	900–954	
EH-1405	1192–1590	1032–1272	
EH-1406	1510–1590	1351–1590	15
EH-1413	2000	1780	
EH-1407	2300	2167	15½
EH-1409	2500	–	16
EH-1411	3500	–	16½
EH-1412	4000	–	17

Galvanized hardware for mounting to insulator is supplied.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

EHV connectors

Type AS-CF and ASLA-CF

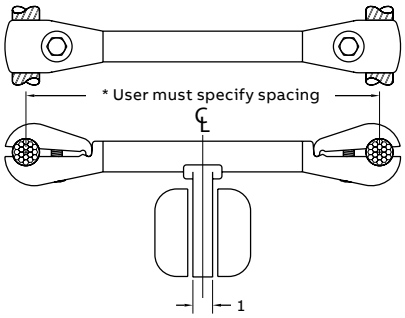
Type AS-CF – Bolted cable spacer



Cat. no.	Cable AAC (kcmil)	Cable ACSR (kcmil)	Min. spacing (in.)*
EH-1380	550–800	556–715	7
EH-1381	874–1000	795–900	
EH-1383	1000–1113	900–954	
EH-1385	1192–1590	1032–1272	
EH-1386	1510–1590	1351–1590	
EH-1393	2000	1780	8
EH-1387	2300	2167	
EH-1389	2500	–	9
EH-1391	3500	–	9½
EH-1392	4000	–	10

Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

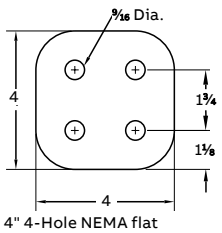
Type ASLA-CF – Bolted cable spacer tee connector



Cat. no.	Cable AAC (kcmil)	Cable ACSR (kcmil)	Min. spacing (in.)*
EH-1679	550–800	556–715	9
EH-1680	874–1000	795–900	
EH-1681	1000–1113	900–954	
EH-1682	1192–1590	1032–1272	
EH-1683	1510–1590	1351–1590	
EH-1688	2000	1780	10¼
EH-1684	2300	2167	
EH-1685	2500	–	
EH-1686	3500	–	11¾
EH-1687	4000	–	12¼

Normally used with a pad shield (sold separately – see page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions

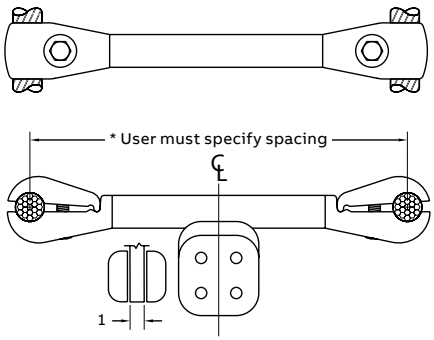


4" 4-Hole NEMA flat

EHV connectors

Type ASLA-90-CF and AP-CF

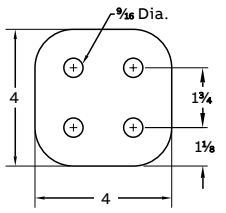
Type ASLA-90-CF – Bolted cable spacer tee connector



Cat. no.	Cable AAC (kcmil)	Cable ACSR (kcmil)	Min. spacing (in.)*
EH-1690	550–800	556–715	10
EH-1691	874–1000	795–900	
EH-1692	1000–1113	900–954	
EH-1693	1192–1590	1032–1272	
EH-1694	1510–1590	1351–1590	
EH-1699	2000	1780	11¼
EH-1695	2300	2167	
EH-1696	2500	–	12¼
EH-1697	3500	–	12¾
EH-1698	4000	–	13¼

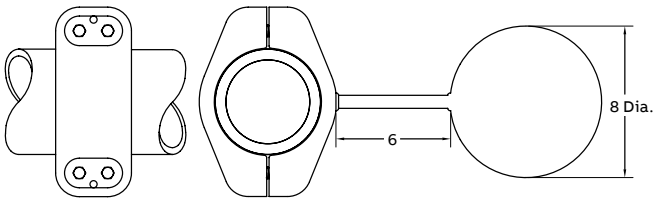
Normally used with a pad shield (sold separately – see page 141).
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.
All pads are finished on both sides.

Dimensions



4" 4-Hole NEMA flat

Type AP-CF – Bolted ground stud



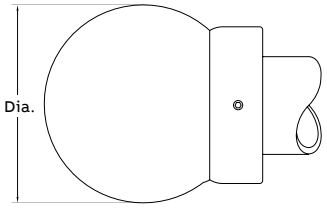
Cat. no.	SPS (in.)
EH-1161	2
EH-1162	2½
EH-1163	3
EH-1164	3½
EH-1165	4
EH-1166	5
EH-1167	6

For other ball diameter sizes, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

EHV connectors

Type AVM-CF and AVW-CF

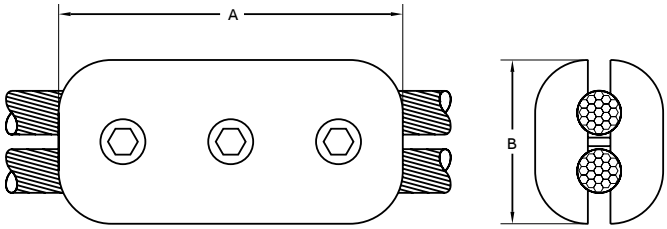
Type AVM-CF – Bolted corona bell



Cat. no.	SPS (in.)	Dia. (in.)
EH-3865	2	5
EH-3866	2½	
EH-3867	3	8
EH-3868	3½	
EH-3869	4	
EH-3870	5	
EH-3871	6	

For other ball diameter sizes, consult customer service.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Type AVW-CF – Parallel clamp, cable to cable



	Cable run & tap			
Cat. no.	AAC (kcmil)	ACSR (kcmil)	A (in.)	B (in.)
EH-1776	556–800	477–666	6½	3¾
EH-1777	874–954	715–854		3⅞
EH-1778	1000–1272	954–1113	7	4
EH-1779	1351–1510	1192–1351	7¼	4½
EH-1780	1590–1590	1431–2167		5

Both run and tap must be of the same size for this parallel clamp to function correctly.
Connectors supplied with clamping hardware in accordance with NEMA standard CC 1.

Technical information

Recommended torque, cast alloys and wrought alloys (other than hardware)

Recommended torque

Size (in.)	Torque inch pounds
Silicon bronze and stainless steel	
3/8-16	240
1/2-13	480
5/8-11	660
Aluminum (lubricated)	
3/8-16	144
1/2-13	300
5/8-11	480

Cast alloys

Alloy		Designation	Used for
Aluminum	Aluminum Association	A100	Compression
		356-T6	All others
Bronze	Copper Development Association NEMA CC1 85-5-5-5	833	Bronze
		836	Bronze
		844	Bronze

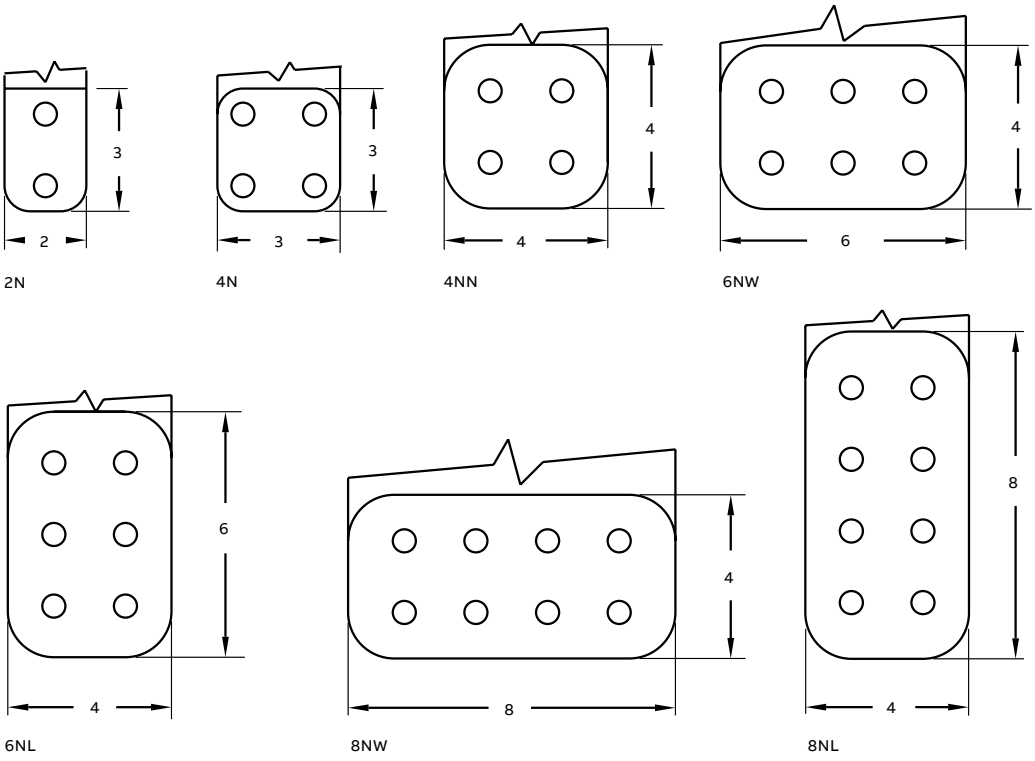
Wrought alloys (other than hardware)

Alloy		Designation	Used for
Aluminum	Aluminum Association	1100-0	Aluminum straps
		6063-T6	Pipe
Copper	Copper Development Association	110	Copper straps
Braid		Tinned, flat, braided copper cable	Braids
St. stl.		17-7 PH, precipitation hardenable	Anti-static springs

Technical information

Pad designations

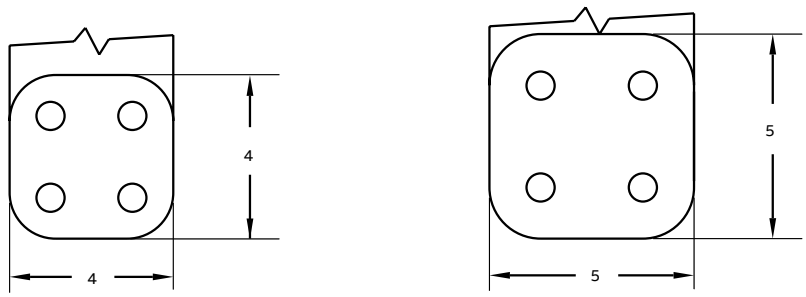
All holes in these pads are 9⁄16" diameter on 1¾" centers.



2N 4N 4NN 6NW

6NL 8NW 8NL

All holes in these pads are 11⁄16" diameter.



4NN2 (2" Centers) 5NN (2½" Centers)

Technical information

Bolted aluminum cable ranges, copper cable ranges and weld cable ranges

Bolted aluminum cable ranges

	Cable size		
Code	**AAC (AWG or kcmil)**	**ACSR (AWG or kcmil)**	**Cable dia. min.–max. (in.)**
25	#4–250	#4–4/0	0.232–0.575
40	1/0–400	1/0–336	0.368–0.741
100	250–1000	300–795	0.567–1.150
150	556–1500	636–1272	0.856–1.412
250	1100–2500	1113–2300	1.209–1.823

Copper cable ranges

Code	**Cable size (AWG or kcmil)**	**Cable dia. min.–max. (in.)**
60	#4–600	0.232–0.893
100	4/0–1000	0.528–1.152
150	600–1500	0.893–1.412
200	500–2000	0.813–1.632

Cable sizes are kcmil.

Weld cable ranges

	Cable size		
Code	**AAC (AWG or kcmil)**	**ACSR (AWG or kcmil)**	**Cable dia. min.–max. (in.)**
1/0	1/0	1/0	0.368–0.393
2/0	2/0	2/0	0.414–0.460
3/0	3/0	3/0	0.464–0.502
4/0	4/0	4/0	0.522–0.566
26	250	266.8 (18/1)	0.567–0.609
30	300	266.8 (26/7)	0.629–0.660
35	336.4–350	300 (18/1)–336.4 (18/1)	0.666–0.700
40	397.5–400	336.4 (26/7)–397.5 (18/1)	0.721–0.743
47	450–477	397.5 (24/7) & (30/7)	0.770–0.806
55	500–550	397.5 (30/7)–477 (26/7)	0.806–0.858
60	556.5–600	477 (26/7)–556 (24/7)	0.856–0.915
70	636–700	556.5 (26/7)–605 (26/7)	0.918–0.974
79	750–795	636 (24/7)–666.6 (26/7)	0.977–1.030
87	874.5	715.5	1.036–1.081
95	900–954	795 (24/7) & (30/19)	1.092–1.146
103	1000–1033.5	900 (54/7)–954 (54/7)	1.152–1.196
119	1100–1192.5	1033.5–1113 (45/7)	1.203–1.259
130	1200–1300	1113 (45/7)–1192.5 (54/19)	1.259–1.334
143	1351.5–1431	1272–1351 (45/7)	1.340–1.398
150	1431–1500	1272 (54/19)–1351.5 (45/7)	1.364–1.412
160	1510.5–1600	1351.5 (54/19)–1510.5 (45/7)	1.415–1.478
180	1700–1800	1510.5 (54/19)–1590	1.492–1.548
200	1900–2000	1780 (72/7) & (84/19)	1.571–1.630
225	2250	2167 (72/7)	1.667–1.735
230	2300	2156 (84/19)–2312	1.751–1.802
251	2500–2515	N/A	1.820–1.880
300	2750–3000	N/A	1.912–1.996

Cable sizes are kcmil.

Technical information

Pipe chart and standard suffixes

Pipe chart

Pipe			Diameter	Amps NEMA CC-1
Code	Size (in.)	O.D.	I.D.	outdoor
Schedule 40 aluminum pipe, SPS				
E	¾	1.050	0.824	495
F	1	1.315	1.049	650
G	1¼	1.660	1.380	810
H	1½	1.900	1.610	930
J	2	2.375	2.067	1155
K	2½	2.875	2.469	1550
L	3	3.500	3.068	1895
M	3½	4.000	3.548	2170
P	4	4.500	4.026	2460
R	5	5.563	5.047	3080
S	6	6.625	6.065	3735
Schedule 80 aluminum pipe, EHPS				
E	¾	1.050	0.742	565
F	1	1.315	0.957	740
G	1¼	1.660	1.278	930
H	1½	1.900	1.500	1070
J	2	2.375	1.939	1355
K	2½	2.875	2.323	1780
L	3	3.500	2.900	2195
M	3½	4.000	3.364	2530
P	4	4.500	3.826	2880
R	5	5.563	4.813	3635
S	6	6.625	5.761	4490

Pipe			Diameter	Amps NEMA CC-1
Code	Size (in.)	O.D.	I.D.	outdoor
Schedule 40 copper pipe, SPS				
C	½	0.840	0.625	510
E	¾	1.050	0.822	710
F	1	1.315	1.062	850
G	1¼	1.660	1.368	1120
H	1½	1.900	1.600	1280
J	2	2.375	2.062	1550
K	2½	2.875	2.500	2000
L	3	3.500	3.062	2250
M	3½	4.000	3.500	3050
P	4	4.500	4.000	3400
Schedule 80 copper pipe, EHPS				
C	½	0.840	0.542	580
E	¾	1.050	0.736	780
F	1	1.315	0.951	1010
G	1¼	1.660	1.272	1250
H	1½	1.900	1.494	1450
J	2	2.375	1.933	1850
K	2½	2.875	2.315	2400
L	3	3.500	2.892	2950
M	3½	4.000	3.358	3400
P	4	4.500	3.818	3800

Standard suffixes

The following suffixes are to be used for variations to standard catalog numbers. Consult customer service for additional configurations.

EH – Substitute with galvanized hardware
e.g.: 2709-1-30-EH

R – Tin plate
e.g.: 2709-1-30R

S – Silver plate
e.g.: 2709-1-30S

TGP – Tube guide pin, replaces cast guide pin on expansion couplers and terminals
e.g.: AWEPC-H-4NN-TGP

PNW – Pad not welded, expansion terminals
e.g.: AWEPC-H-4NN-PNW

SS – Substitute with stainless steel hardware
e.g.: ABT-R-H-SS

B – Blank pad, no holes
e.g.: ABNT-J-4NB

SSB – Substitute with stainless steel bolt, lock washer and silicon bronze nut
e.g.: ABN-P-4N-SSB

Technical information

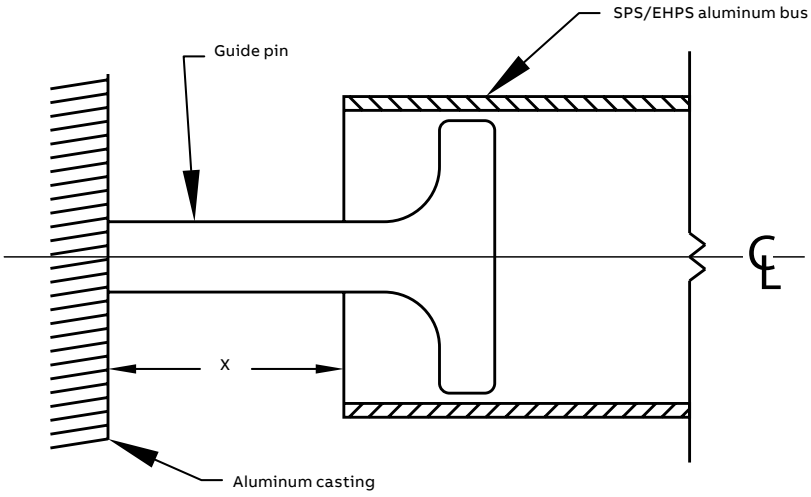
GA-735 – Graph for installing expansion terminals and couplers

Determine bus temperature at time of installation. Read across chart to find proper “X” dimension. If bus run is longer than shown, consult technical services.

	<100 ft. up to 3½ SPS/EHPS aluminum bus	<140 ft. 4-6 SPS/EHPS aluminum bus
Bus temp. °F	**“X” (in.)**	**“X” (in.)**
110	1 7/8	2 3/4
90	2 1/8	3 1/8
70	2 1/2	3 5/8
50	2 5/8	3 15/16
30	2 7/8	4 7/16
10	3 1/8	4 7/8
-10	3 1/3	5 1/4
-30	3 5/8	5 5/8
-50	3 7/8	6

Do not use this chart to install expansion bus supports.
See chart GA-796 on the following page for these devices.

Dimensions



Technical information

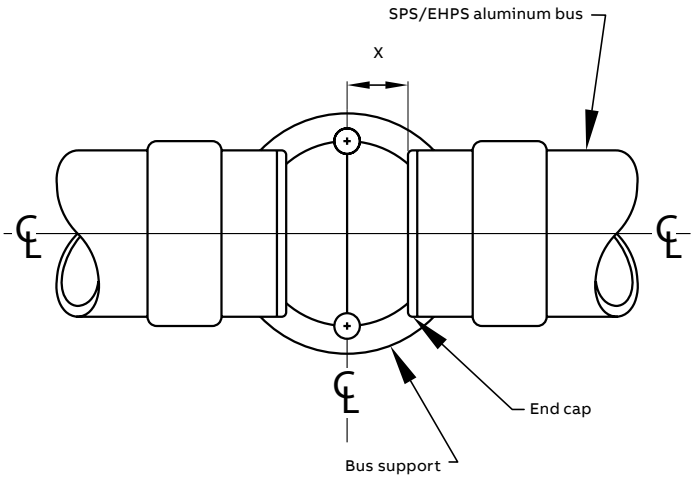
GA-796 – Graph for installing expansion bus supports

Determine bus temperature at time of installation. Read across chart to find proper “X” dimension. If bus run is longer than shown, consult technical services.

Bus temp. °F	<70 ft. bus 3" bolt circle aluminum bus “X” (in.)	<100 ft. bus 5" bolt circle aluminum bus “X” (in.)	<125 ft. bus 7" bolt circle aluminum bus “X” (in.)
110	1 1/8	1 5/8	3
90	1 7/16	1 15/16	3 7/16
70	1 9/16	2 1/3	3 5/8
50	1 7/8	2 5/8	3 7/8
30	2	2 7/8	4
10	2 1/4	3 1/8	4 1/3
-10	2 1/2	3 1/2	4 5/8
-30	2 11/16	3 7/8	4 7/8
-50	2 15/16	4	5

Use this chart for determining proper "X" dimension when installing expansion supports.
Each "X" is dependent on bus length per side.
Use for HV or EHV, bolted or welded.
Do not use for expansion terminals or couplers.

Dimensions



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US
ABB Installation Products Inc.
Electrification Business
860 Ridge Lake Blvd.
Memphis, TN 38120
+1 901-252-5000

tnb.abb.com

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