ATS-SF45J 45° Elbow Body - Swivel Housing

Adaptaflex



Single 45° piece body with integrated conduit sealing system. Swivel metal housing for use with Jacob PERFECT cable glands to provide integrated strain relief and optimal cable ingress protection

Approvals





Conformity
BSI Kitemark KM-35161
CE Low voltage directive
NF 16-10/12 I4, F2
CEI 11170 LR3 / LR4

IP Rating	Appropriate Conduit
For use with:	Type PA / PI / PR / PADL / PF
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69	

Fire Performance	
Test Standard	Performance Rating
BS EN 61386-1 & 23	Approved
NFF16-101	I4 F2
ISO 4589-2	24%
BS EN 60695-2-11	850°C
UL94	НВ

Temperature Range
Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

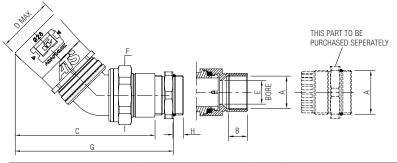
NOTE: Temperature may be limited by the use of the Jacob cable gland

Degree of Mechanical Protection

High Impact Resistance

Material	
Polyamide (Nylon) 66	
Nickel Plated Brass Thread/TPE	
UV Protection	
Very High	





Metric			
Thread	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
M16	16.0mm	14.4mm	1.5mm
M20	20.0mm	18.4mm	1.5mm
M25	25.0mm	23.4mm	1.5mm
M32	32.0mm	30.4mm	1.5mm
M40	40.0mm	38.4mm	1.5mm
M50	50.0mm	48.4mm	1.5mm
M63	63.0mm	61.4mm	1.5mm

Doub and	Thread	Nominal dimensions (mm)						Н	
Part no	A	В	C	D	E	F	G	Short	Long
AT16/M16/SF45J	M16x1.5	10.0	73.1	23.2	9.4	22.0	80.1	6.0	10.0
AT21/M20/SF45J	M20x1.5	11.0	82.7	30.2	13.6	27.0	91.7	6.5	10.0
AT28/M25/SF45J	M25x1.5	11.0	89.7	37.2	16.5	34.0	89.7	7.0	11.0
AT34/M32/SF45J	M32x1.5	11.5	97.6	44.2	21.5	42.0	97.6	7.5	13.0
AT42/M40/SF45J	M40x1.5	13.0	126.7	45.2	27.4	54.0	128.7	8.5	13.0
AT54/M50/SF45J	M50x1.5	14.5	137.7	66.2	35.6	70.0	149.7	10.0	14.0
AT54/M63/SF45J	M63x1.5	14.5	137.7	66.2	48.5	70.0	149.7	10.0	14.0

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Created ASMay/16





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BS EN 61386 Classification

Fitting	Compression	Impact	Min Temp	Max Temp	Bending	Electrical	IP Solids	IP Water	Corrosion	Tensile	Non-Flame propgating	Suspended load
ATS	N/A	4	2	4	N/A	0	6	7	0	1	1	0

Mechanical Properties

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Test type	Methods / Standards	Requirements	Status
Tensile Strength	IEC61386-1	2 mins at Specified Value (PAFS21 Conduit)	Class 1
Tensile Strength		Ultimate Pullout (PAFS21 Conduit)	240N
Impact Strength @ -45°C	IEC61386-1	No visible damage	Class 1
Impact Strength @ -5°C	IEC61386-1	No visible damage	Class 3
Impact Strength @ -23°C	IEC61386-1	No visible damage	Class 5

Tensile Tests to IEC 61386 gives the minimum classification value only. Actual values will depend on the type and size of the fittings used and will always be greater than the minimum – Impact strength is the minimum classification value at the minimum temperature – actual values will depend on size and temperature. Specific values available on request.

Thermal Properties

Test type	Methods / Standards	Requirement	Value
Dynamic Applications	IEC 61386-23	5000 Operations at MBR 2hrs	-45°C to +120°C
Static Short Term Temp		Temporary Use (3000hrs)	-50°C to +120°C
Static Long Term Temp		Permanent Use (30,000) Hours	-40°C to +105°C

Flammability

Test type	Methods / Standards	Requirement	Result	Unit
Glow Wire	BS EN 60695-2-11	Extinguish within 30s	850°C	°C
Flammability	IEC 61386-1-12	1Kw Burner Flame to Self Extinguish	Pass	Pass/Fail
Oxygen Index - Nylon Body	ISO 4589-2		24.1	%
Ignition Rating - Nylon Body	NF F16-101	I Rating	14	-
Oxygen Index - Elastomer Seal	ISO 4589-2		20.2	%
Ignition Rating - Elastomer Seal	ISO 4589-2	I Rating	14	-

Smoke

Test type	Methods / Standards	Requirement	Result	Unit
Fume Rating - Nylon Body	NF F16-101	F Rating	F2	-
Fume Rating - Elastomer Seal	NF F16-101	F Rating	F2	-

Toxicity

•	Test type	Methods / Standards	Requirement	Result	Unit
	Halogen Free	NFX 70-100	< 0.5%	Pass	Pass/Fail

Pre Test Conditions

Duration	Standard	Temperature	Relative Humidity
168 (Hours)	IEC61386	23 (°C)	50 (%)

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Technical Data

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Chemical Resistance Chart								
Astm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)					
Astm No.2	Diethylamine	MEK	Sulphuric Acid (10%)					
Astm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)					
Acetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene					
Acetone	Ethylamine	Oxalic Acid	Transformer Oil					
Aluminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane					
Aniline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene					
Benzaldehyde	Freon 32	Petrol	Turpentine					
Benzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil					
Carbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate					
Chlorine water	Hydrogen Peroxide (35%)	Silver Nitrate	Water					
Chloroform	Hydrogen Peroxide (87%)	Skydrol	White Spirit					
Citric Acid	Lactic Acid	Sodium Chloride	Zinc Chloride					
Copper Sulphate	Lubricating oil	Sodium Hydroxide (10%)						
Cresol	Methanol	Sodium Hydroxide (60%)						

All Values Based on Size 21 Fittings and PAFS Conduit, For Other Sizes and Conduit Systems Please Consult

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependent on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Thomas & Betts for further information.

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED. MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

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