Adaptaflex

ABB

PRODUCT CATALOGUE

Flexible conduit systems for critical power & data cable protection

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Introduction
Company overview

Adaptaflex flexible conduit systems are used to protect critical power and data cabling. Established in 1972 Adpataflex has developed into a leading player within the flexible conduit market.

Adaptaflex is one of the market leading flexible conduit system brands that can be found all over the world. Combining innovative design with dedicated manufacture it offers customers one of the world's broadest ranges of cable protection products and solutions. With a choice of over 6000 products the range covers metallic and non-metallic flexible conduit systems for the protection of critical power and data cable.

The system solutions from Adaptaflex need to perform in a wide variety of environments from high temperature to freezing subzero conditions. The products are designed and tested to withstand constant vibrations, water ingress, offer corrosion resistance and are available in halogen free, low smoke and low toxicity materials. An extensive range of engineered solutions are designed to withstand the rigours of some of the most technically demanding markets. So whatever your project involves our experience will provide the answer helping you to specify the correct flexible conduit system.

Markets and industries
Adaptaflex flexible conduit systems are used to protect critical power and data cabling throughout a wide range of markets including:

- Commercial contracting
- Machinery
- Rail/Infrastructure
- Marine
- Mechanical
- Security/CCTV
- Data cabling
- Critical power

Our products are designed and engineered to meet a variety of market application requirements, providing product innovation, saving installation and component costs, improving the quality and the integrity of the end product.

Introduction
Quality approvals

Quality approvals
The company's commitment to independent testing across a wide range of applications has led to an impressive range of certifications and quality approvals:

- BSI Kitemark
- BS EN ISO14001 Environmental standard
- IEC 61386 Conduit standard covering the performance characteristics of flexible conduits
- IP69, DIN 40050, standard with its Adaptalok range of non metallic fittings
- Offer non-metallic conduit that is fully compliant to the new dual listed UL 1696 standard. Required for any equipment destined for export to the USA and Canada
- The Hi-Spec PEEK range, designed for the most demanding electrical applications in rail infrastructure, underground and public buildings, is the only non-metallic flexible conduit system fully compliant with both BS 6853 Class 1A requirement and LUL engineering standard 1-085

Industry standards
As one of the worlds leading flexible conduit system manufacturers, Adaptaflex has achieved many international approvals, for our manufacturing as well as our product ranges.

Adaptaflex are able to use our experience and knowledge to ensure safety and quality levels are maintained now and in the future.

Introduction
Third party testing & approvals

Third party testing & approvals

IEC61386 Performance classification standard
Adaptaflex has achieved third party accreditation to the IEC61386 Standard from the British Standards Institution (BSI). IEC61386 conformance guarantees that products meet performance specifications for fatigue life, operating temperature, non-flame propagation, IP ratings amongst other criteria.

BSI Kitemark
Adaptaflex manufacturer to third party accreditation through the BSI Kitemark scheme. The Kitemark is one of the world's premier symbols of trust, integrity and quality. Manufacturers with the Kitemark are an elite club of some of the world's best companies being annually tested to ensure continued compliance. Having the Kitemark associated with our products illustrates that we have satisfied the most rigorous of quality processes.

ISO9001 Quality standard
Adaptaflex conform to ISO 9001:2000, the internationally recognised standard for Quality Management Systems. This standard reflects the procedures and management processes throughout the whole of the company.

BS EN ISO14001
Environmental standard
Controlling the impact of manufacturing activities on the environment is a major challenge. Again Adaptaflex lead the way by being the first conduit manufacturer to comply with this Standard.

We also meet the requirements of EU directive 2002/95/EC on the restriction of the use of certain hazardous substances (RoHS). This forms part of the legislation on waste management and is aligned with the waste electrical and electronic equipment (WEEE). Specifically no lead, mercury, cadmium, hexavalent chromium; polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) are used in the manufacture of metallic and non-metallic flexible conduit systems.

Customer support
All our products are backed up by full technical support team, sales teams, customer care team and in-house marketing specialists. All dedicated teams working together to ensure that you have the best of support in the market place.

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Applications
Construction applications

Construction overview
In these environments there are ever increasing demands not only for quicker and easier to install solutions but also for increased safety and technical performances to meet the specific needs of municipal buildings. The ability to offer product ranges with enhanced low fire hazard properties for safety or overbraiding for security and EMI shielding. Where exposed interiors call for design consideration there is a choice such as conduit in different colours such as white or indifferent materials such as stainless steel to complement interior styling - Adaptaflex have a range to suit.

Typical Applications:
- Office buildings
- Schools
- Hospitals (EMC)
- Retail developments
- Leisure complexes / Sports stadiums

Industry approved
Adaptaflex products are approved by a range of recognised industry standards including:
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice

Product recommendation
- Low fire hazard PA conduit systems
- Adaptalok fittings
- LFH-SP Liquid resistant covered flexible steel conduit systems enhanced low fire hazard

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LOW VOLTAGE DIRECTIVE

Applications
Machinery applications

Machinery overview
This market is driven by the needs to meet the best in lean manufacturing. To achieve this every piece of equipment in this sector is pushed for greater efficiency by working more intensely and faster. As a result any conduit installed in these applications will need to provide excellent mechanical strength, flexibility and abrasion resistance in order to supply the best possible solution to provide protection along the entire length of all the moving parts.

In this hardworking environment of both dynamic and static applications, it is essential that any cable management products continue to deliver performance in areas where resistance to oils and chemicals is paramount. Any down time in manufacturing can be very costly so products that can offer high ingress protection are fundamental and Adaptaflex can offer a wide range of solutions to meet all of these needs.

Technology is increasingly being used in modern machine tools and the need to interface conduit to multipin-connectors is escalating. Nylon systems continue to gain popularity in this sector due to their excellent performance, flexibility and low installed cost benefits. For this reason Adaptaflex has developed a wide range of liquid tight connector interfaces in the Adaptalok range.

Typical Applications:
- Metal cutting and fabrication
- Milling machines
- CNC machine tool technology
- Moulding machinery
- Security & CCTV
- Robotics

Industry approved
Adaptaflex products are approved by a range of recognised industry standards including:
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice
- UL/CSA
- UR

Product recommendation
- SPL liquid tight conduit systems
- SPLHC conduit systems
- PA conduit systems
- PI conduit systems
- SPUL for machinery
- Adaptaring fittings USA export
- PADL conduit systems
- Overbraided conduit systems
- ATS fittings

Applications
Rail infrastructure applications

Rail overview
For more than 30 years we have worked with the foremost manufacturers and suppliers of public transportation systems throughout the world. We understand not just the Standards that you need to work to, but also the Industry issues that you face including your customer service delivery expectations.

Our systems need to perform in a wide variety of environments from high temperature to freezing subzero conditions. Our products can withstand constant vibrations, water ingress, offer corrosion resistance and are available in halogen free, low smoke and low toxicity materials. If your project involves rail stations, infrastructure, signalling, tunnels, surveillance or data and information systems our experience will provide the answer helping you to specify the correct flexible conduit system.

Typical Applications:
- Infrastructure projects - Stations, tunnels, signalling
- Low fire hazard systems
- Exposed Locations
- High impact resistance, low temperature flexing
- EMC Protection for safety critical systems
- OEM packages

Industry approved
Adaptaflex products are approved by a range of recognised industry standards including:
- LUL 1-085
- NF F 16-101/102
- Deutsche Bahn (DIN 5510)
- BS6853
- Siemens Transportation
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- EN 45545-2

Approvals & standards
- PA conduit systems
- PR enhanced low fire hazard conduit systems
- PF conduit systems
- PK conduit systems
- LFH-SP conduit systems
- CP conduit systems
- IP66/67/68/69 Adaptalok/ATS fittings
- Overbraided systems

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KM35161 CE LOW VOLTAGE DIRECTIVE

Applications
Marine applications

Marine overview
Safety and reliability are vital considerations within one of the harshest operational environments to be found. Products specified and installed within this sector have to face the particular damaging effects from the wind, wave and salt spray conditions in exposed areas. Whilst this demands for the most robust of products it also calls for solutions where vibration and temperature extremes add to the challenge.

Adaptaflex offer a broad range of solutions to suit this sector which are abrasion, impact, corrosion and chemical resistant, offering long service life and low fire hazard properties. Utilising Adaptalok sealing systems also offers ingress protection particularly valuable in pressure washing applications and with our specialist insert seal raises the IP rating from IP66 to IP67/68/69.

Typical Applications:
- Ship/Boat engine rooms
- Ship and dock yards
- Leisure boats and cruisers
- Marina developments
- Ocean going craft

Industry approved
Adaptaflex products are approved by a range of recognised industry standards including:
- UR
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive

Product recommendation
- PA conduit systems
- PR conduit systems
- IP66/67/68/69 Adaptalok ATS™ systems
- Adaptaseal systems
- Stainless steel conduit systems
- SPL conduit systems
- LFH-SP conduit systems

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LOW VOLTAGE DIRECTIVE

Applications
Mechanical applications

Mechanical overview
Adaptaflex offers a range of products suited for this market, providing abrasion, impact and corrosion resistance and ingress protection. Additionally, Adaptaflex offers a range of high specification systems, braided EMI screen options.

Adaptaflex Applications Engineers offer a breadth of experience gained internationally across all different market sectors. A bespoke design service and expert technical knowledge guarantees that Adaptaflex will find the perfect product solution for your application.

Examples of individual markets served:
- Hoists
- Cranes
- Lifts
- Escalators

Industry approved
Adaptaflex products are approved by a range of recognised industry standards including:
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice
- UL/UR
- CSA

Product recommendation
- SPL liquid tight conduit systems
- PA conduit systems
- Overbraided conduit systems
- Stainless steel conduit systems
- SPLHC conduit systems
- PI conduit systems
- Adaptaring fittings
- ATS fittings

Non-metallic conduit systems

Quick selection guide

Product selection guide

Type	Pitch	Type PA	Type PA	Type PA	Type PA	Type PF	Type PF	Type PI	Type PI	Type PR	Type PADL
Part number	Fine	PAFL	PAFL-S	PAFS	PAFH	PFFS	PFFH	PIFS	PIFH	PRFS	PADL
	Coarse	PACL	PACL-S	PACS	PACH	PFCS	PFCH	PICS	PICH	PRCS	
Conduit weight		Light weight	Light weight slit	Standard weight	Heavy weight	Standard weight	Heavy weight	Standard weight	Heavy weight	Standard weight	Standard weight
Conduit material		PA6	PA6	PA6	PA6	PA12	PA12	PA11	PA11	PA6	PA6
Covering/overbraid		-	-	-	-	-	-	-	-	-	-
Conduit colour											
Black (BL)		■	■	■	■	■	■	■	■	■	■
Grey (GR)		■	-	■	■	-	-	■	-	-	-
White (W)		-	-	-	-	-	-	-	-	-	-
IP rating (with appropriate fitting)											
IP40		■	-	■	■	-	-	■	■	■	■
IP65		-	-	-	-	-	-	-	-	-	-
IP66		■	-	■	■	■	■	■	■	■	■
IP67		■	-	■	■	■	■	■	■	■	■
P68		■	-	■	■	■	■	■	■	■	■
P69		-	-	■	-	■	■	■	-	■	■

Characteristics

Temperature range										
Static applications (°C)	-40 to +120	-40 to +120	-40 to +120	-40 to +120	-50 to +110	-50 to +110	-50 to +110	-50 to +110	-40 to +120	-40 to +120
Moving applications (°C)	-5 to +120	-5 to +120	-5 to +120	-5 to +120	-45 to +120	-45 to +120	-45 to +120	-45 to +120	-5 to +120	-18 to +120
UV resistance	Very high	Very high	Very high	Very high	Very high	Very high	Very high	Very high	Very high	Very high
Flexibility	High	High	High	Medium	Very high	High	Very high	High	High	Medium
Fatigue life	High	High	High	Medium	Very high	High	Very high	Very high	Medium	Medium
Low fire hazard	-	-	Standard	Standard	Standard	Standard	-	-	Enhanced	Standard
Halogen free	■	■	■	■	■	■	■	■	■	■
Self extinguishing	■	■	■	■	■	■	■	■	■	■
EMI screen	-	-	-	-	-	-	-	-	-	-
High mechanical strength	-	-	-	-	-	-	-	-	-	-
High abrasion resistance	-	-	■	■	■	■	-	-	■	■
Approvals										
BSI Kitemark	■	■	■	■	■	■	■	■	■	-
CE	■	■	■	■	■	■	■	■	■	■
UL / CSA	-	-	■	■	■	■	-	-	-	■
DIN 5510-2	■	■	■	■	■	■	■	■	■	-
NF F	-	-	■	■	■	■	■	■	■	-
LUL 1-085	-	-	-	-	-	-	-	-	■	-
UNI CEI 11170	-	-	-	-	■	■	-	-	-	-
EN45545-2 to HL2	-	-	-	-	■	■	-	-	■	-
EN45545-2 to HL3	-	-	-	-	-	-	-	-	■	-
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Type CP	Type KF	Type KF	Type KF	Type PP	Type XF	Type RF	Type PK	Type PKTC	Type PKSS	Type PRTC	Type PRSS
CPFM	KFL	KFS	KFM	PPFM	XF	RF	PKFS	PKFSTC	PKFSSS	PRFSTC	PRFSSS
CPCM							PKCS	PKCSTC	PKCSSS	PRCSTC	PRCSSS
Medium weight	Light weight	Standard weight	Medium weight	Medium weight	Standard weight	Standard weight	Standard weight	Standard weight	Standard weight	Standard weight	Standard weight
CPe	PVCu	PVCu	PVCu	PP	PVC	PVC	PK	PK	PK	PA6	PA6
-	-	-	-	-	Plasticised PVC	Plasticised PVC	-	Tinned copper	Stainless steel	Tinned copper	Stainless steel
■	-	-	■	■	■	■	■	-	-	-	-
-	■	-	-	-	-	■	-	-	-	-	-
-	-	■	-	-	-	-	-	-	-	-	-
■	■	■	■	■	-	-	-	-	-	-	-
■	■	■	■	-	■	-	-	-	-	-	-
■	-	-	-	■	-	-	■	■	■	■	■
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■	-	-	-	■	-	-	-	-	-	-	-
■	-	-	-	-	-	-	-	-	-	-	-
-50 to +135	-5 to +60	-5 to +60	-5 to +60	-20 to +90	-5 to +60	-20 to +60	-60 to +260	-60 to +260	-60 to +260	-40 to +120	-40 to +120
-25 to +150	-5 to +60	-5 to +60	-5 to +60	-5 to +105	-5 to +60	-5 to +60	-45 to +260	-45 to +260	-45 to +260	-5 to +120	-5 to +120
Very high	High	High	High	Medium	High	High	Very high	Very high	Very high	Very high	Very high
Very high	Pliable	Pliable	Pliable	High	Very high	Medium	High	High	High	High	High
Very high	Low	Low	Low	Medium	Medium	Medium	High	High	High	Medium	Medium
Standard	-	-	-	-	-	-	Super	Super	Super	Enhanced	Enhanced
■	-	-	-	■	-	-	■	■	■	■	■
■	■	■	■	-	■	■	■	■	■	■	■
-	-	-	-	-	-	-	-	High	Standard	High	Standard
-	-	-	-	-	-	-	-	■	■	■	■
-	-	-	-	-	-	-	■	■	■	■	■
■	■	■	■	-	-	-	■	■	■	■	■
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Non-metallic conduit systems
Introduction

Adaptaflex have more than 20 different types of non-metallic conduit systems all providing different technical properties for your cable management applications.

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02 Caption facim lam voluptu repudae esendentiur accum ipsandi ullendis con peris aut arunt adiat

Our Conduit range is available in many different materials, ranging from lightweight to heavyweight with nominal conduit sizes from 10mm right up to the Jumbo size of 106mm.

For more demanding applications, there is a wide-ranging high specification series of conduit with enhanced low fire hazard properties, EMI screening and incorporating high fatigue life. Overbraided options are available for use in abrasive environments.

Standard product is manufactured in a wide range of materials. The corrugated construction provides good flexibility and low weight. Additionally, a range of fittings are specifically designed to maintain system integrity including the popular and easy to fit Adaptalok system. Fitting types are available in straight, 90°, 45°, with metric, PG, PF, & NPT threads.

Advantages:
- Non metallic conduits do not corrode (rust)
- Wider variety of fittings - much larger solutions choice
- Quicker to install (cut & assemble fittings)
- Lighter in weight
- Better fatigue life
- Return to shape

Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval, UL 1696, NF, LUL and DIN amongst others.

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01

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02

Non-metallic conduit systems

Type PA

Type PA **Lightweight conduit / Materials: Polyamide (nylon) 6 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)	NW conduit size	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
PAFL13	13	10	Fine	13.0	10.0	25	50
PAFL16	16	13	Fine	15.8	11.9	35	50
PAFL21	21	17	Fine	21.2	16.8	45	50
PAFL28	28	23	Coarse	28.5	22.2	50	50
PAFL34	34	29	Coarse	34.5	27.9	60	50
PAFL42	42	36	Coarse	42.5	35.2	65	25
PAFL54	54	48	Coarse	54.5	46.9	75	25

To order quote part number, colour & reel length, e.g. PAFL13/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE DIN	**For use with:** Adaptalok / ATS / Adaptaring / Adaptasteel		Static applications: -40°C to +120°C	Very high
			Moving applications: -5°C to +120°C	
	IP40	Adaptaring	**Flexibility & fatigue life**	
	IP65	N/A	High flexibility – High fatigue life	
	IP66	Adatalok, ATS or Adaptasteel	**Fire performance & EMI screen**	
	IP67	Adaptalok + ALS Seal or ATS , Adaptasteel	Self extinguishing	
	IP68	Adaptalok + ALS Seal or ATS , Adaptasteel	Halogen free	
	IP69	N/A		

Type PA-Slit **Lightweight slit conduit / Materials: Polyamide (nylon) 6 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	NW conduit size	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
PAFL13-S	13	10	Fine	13.0	10.0	25	50
PAFL16-S	16	13	Fine	15.8	11.9	35	50
PAFL21-S	21	17	Fine	21.2	16.8	45	50
PAFL28-S	28	23	Coarse	28.5	22.2	50	50
PAFL34-S	34	29	Coarse	34.5	27.9	60	50
PAFL42-S	42	36	Coarse	42.5	35.2	65	25
PAFL54-S	54	48	Coarse	54.5	46.9	75	25

To order quote part number, colour & reel length, e.g. PAFL13-S/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE DIN	**For use with:** Adaptalok / ATS / Adaptaring / Adaptasteel		Static applications: -40°C to +120°C	Very high
			Moving applications: -5°C to +120°C	
	IP40	N/A	**Flexibility & fatigue life**	
	IP65	N/A	High flexibility – High fatigue life	
	IP66	N/A	**Fire performance & EMI screen**	
	IP67	N/A	Self extinguishing	
	IP68	N/A	Halogen free	
	IP69	N/A		

Non-metallic conduit systems

Type PA

Type PA — **Standard weight conduit / Materials: Polyamide (nylon) 6 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)	NW conduit size	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m) (BL)	(GR)
PAFS10*	10	7.5	Fine	10.0	6.5	15	50	50
PAFS13*	13	10	Fine	13.0	9.6	25	50	50
PAFS16	16	13	Fine	15.8	11.8	35	10/25/50	50
PAFS21	21	17	Fine	21.2	16.5	45	10/25/50	50
PAFS28	28	23	Fine	28.5	22.6	50	10/25/50	50
PACS28	28	23	Coarse	28.5	21.7	50	10/25/50	50
PAFS34	34	29	Fine	34.5	28.8	60	10/25/50	50
PACS34	34	29	Coarse	34.5	27.7	60	10/25/50	50
PACS42	42	36	Coarse	42.5	35.2	65	10/25	25
PACS54	54	48	Coarse	54.5	46.5	75	10/25	25
PACS80	80	70	Coarse	79.3	67.0	160	10	10
PACS106	106	95	Coarse	106.0	91.5	210	10	10

To order quote part number, colour & reel length, e.g. PAFS13/BL/50M

Approvals

KM35161 CE DIN CSA C US NF cULus US

IP rating	Appropriate fitting
For use with: Adaptalok / ATS / Adaptaring / Adaptaseal / Jumbo	
IP40	Adaptaring & Jumbo
IP65	Jumbo + SK Seal
IP66	Adaptalok, ATS or Adaptaseal
IP67	Adaptalok + ALS Seal or ATS, Adaptaseal
IP68	Adaptalok + ALS Seal or ATS, Adaptaseal
IP69	Adaptalok + ALS Seal or ATS

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Flexibility & fatigue life
High flexibility – High fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance
Very high

LOW FIRE HAZARD · LFH · LOW FIRE HAZARD

Type PA — **Heavyweight conduit / Materials: Polyamide (nylon) 6 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)	NW conduit size	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
PAFH13*	13	10	Fine	13.0	9.0	35	50
PAFH16	16	13	Fine	15.8	11.3	45	50
PACH21	21	17	Coarse	21.2	14.5	60	50
PACH28	28	23	Coarse	28.5	21.3	70	50
PACH34	34	29	Coarse	34.5	26.8	75	50
PACH42	42	36	Coarse	42.5	34.6	90	25
PACH54	54	48	Coarse	54.5	46.0	95	25

To order quote part number, colour & reel length, e.g. PAFH13/BL/50M
*These parts are not covered by the RU certification

Approvals

KM35161 CE DIN CSA C US NF cULus US

IP rating	Appropriate fitting
For use with: Adaptalok / ATS / Adaptaring / Adaptasteel	
IP40	Adaptaring
IP65	N/A
IP66	Adatalok, ATS or Adaptasteel
IP67	Adaptalok + ALS Seal or ATS , Adaptasteel
IP68	Adaptalok + ALS Seal or ATS , Adaptasteel
IP69	N/A

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Flexibility & fatigue life
High flexibility – High fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance
Very high

LOW FIRE HAZARD · LFH · LOW FIRE HAZARD

Non-metallic conduit systems

Type PF

Type PF — **Standard weight conduit / Materials: Modified polyamide 12 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	NW conduit size	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
PFFS10*	10	7.5	Fine	10.0	6.2	20	50
PFFS13*	13	10	Fine	13.0	9.9	30	50
PFFS16	16	13	Fine	15.8	11.7	35	50
PFFS21	21	17	Fine	21.2	16.6	40	50
PFCS28	28	23	Coarse	28.5	21.7	50	50
PFCS34	34	29	Coarse	34.5	27.7	60	25
PFCS42	42	36	Coarse	42.5	35.5	65	25
PFCS54	54	48	Coarse	54.5	46.6	75	25

To order quote part number, colour & reel length, e.g. PFFS13/BL/50M
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
EN45545-2 HL2 - R22 & R23	**For use with:** Adaptalok / ATS / Adaptaring / ALS		Static applications: -50°C to +110°C	Very high
			Moving applications: -45°C to +120°C	
	IP40	Adaptaring	**Flexibility & fatigue life**	
	IP65	N/A	Very high flexibility - Very high fatigue life	
	IP66	ATS, Adaptalok	**Fire performance & EMI screen**	
	IP67	ATS, Adaptalok + ALS Seal	Self extinguishing	
	IP68	ATS, Adaptalok + ALS Seal	Halogen free	
	IP69	ATS, Adaptalok + ALS Seal		

Type PF — **Heavyweight conduit / Materials: Modified polyamide 12 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	NW conduit size	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
PFFH13*	13	10	Fine	13.0	9.7	40	50
PFFH16	16	13	Fine	15.8	11.5	45	50
PFCH21	21	17	Coarse	21.2	15.3	50	50
PFCH28	28	23	Coarse	28.5	21.5	60	50
PFCH34	34	29	Coarse	34.5	27.5	70	25
PFCH42	42	36	Coarse	42.5	35.5	75	25
PFCH54	54	48	Coarse	54.5	46.4	85	25

To order quote part number, colour & reel length, e.g. PFCH13/BL/50M
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
EN45545-2 HL2 - R22 & R23	**For use with:** Adaptalok / ATS / Adaptaring / ALS		Static applications: -50°C to +110°C	Very high
			Moving applications: -45°C to +120°C	
	IP40	Adaptaring	**Flexibility & fatigue life**	
	IP65	N/A	High flexibility – High fatigue life	
	IP66	ATS, Adaptalok	**Fire performance & EMI screen**	
	IP67	ATS, Adaptalok + ALS Seal	Self extinguishing	
	IP68	ATS, Adaptalok + ALS Seal	Halogen free	
	IP69	ATS, Adaptalok + ALS Seal		

Non-metallic conduit systems

Type PR & CP

Type PR

Standard weight conduit / Materials: Modified polyamide (nylon) 6 / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
PRFS13	10	7.5	Fine	10.0	6.2	20	50
PRFS16	13	10	Fine	13.0	9.9	30	50
PRFS21	16	13	Fine	15.8	11.7	35	50
PRCS21	21	17	Fine	21.2	16.6	40	50
PRCS28	28	23	Coarse	28.5	21.7	50	50
PRCS34	34	29	Coarse	34.5	27.7	60	25
PRCS42	42	36	Coarse	42.5	35.5	65	25
PRCS54	54	48	Coarse	54.5	46.6	75	25

To order quote part number, colour & reel length, e.g. PRFS13/BL/50M

Approvals

EN45545-2 HL3 - R22 & R23

IP rating	Appropriate fitting
For use with: Adaptalok / ATS / Adaptaring / Adaptaseal	
IP40	Adaptaring
IP65	N/A
IP66	Adaptalok or Adaptaseal
IP67	Adaptalok + ALS Seal or Adaptaseal
IP68	Adaptalok + ALS Seal or Adaptaseal
IP69	Adaptalok + ALS Seal

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Flexibility & fatigue life
High flexibility - Medium fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance

Very high

Type CP

Medium weight conduit / Materials: Polyester / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (m)
CPFM13	13	10	Fine	13.0	9.5	25	50
CPFM16	16	13	Fine	15.8	11.3	30	50
CPFM21	21	17	Fine	21.2	16.0	35	50
CPCM28	28	23	Coarse	28.5	21.3	45	50
CPCM34	34	29	Coarse	34.5	27.2	55	50
CPCM42	42	36	Coarse	42.5	34.2	60	25
CPCM54	54	48	Coarse	54.5	46.0	70	25

To order quote part number, colour & reel length, e.g. CPFM13/BL/50M

Approvals

IP rating	Appropriate fitting
For use with: Adaptalok / Adaptaseal	
IP40	N/A
IP65	N/A
IP66	Adaptalok or Adaptaseal
IP67	Adaptalok + ALS Seal & Adaptaseal
IP68	Adaptalok + ALS Seal & Adaptaseal
IP69	Adaptalok + ALS Seal

Temperature range
Static applications: -50°C to +135°C
Moving applications: -25°C to +150°C
Flexibility & fatigue life
Very high flexibility – Very high fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance

Very high

Non-metallic conduit systems

Type PADL

Type PADL **Standard weight conduit / Materials: Modified polyamide (nylon) 6 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Minimum bend radius (mm)	Reel length (ft)
PADL16	16	13	Coarse	15.8	11.3	45	100
PADL21	21	17	Coarse	21.2	14.5	60	100
PADL28	28	23	Coarse	28.5	22.6	70	100
PADL34	34	29	Coarse	34.5	27.7	75	100
PADL42	42	36	Coarse	42.5	35.2	80	100
PADL54	54	48	Coarse	54.5	46.0	95	100

To order quote part number, colour & reel length, e.g. PADL16/BL/100

Approvals

KM35161

IP rating	Appropriate fitting
For use with: Adaptalok / ATS	
IP40	N/A
IP65	N/A
IP66	AL or ATS
IP67	AL + ALS Seal or ATS
IP68	AL + ALS Seal or ATS
IP69	AL + ALS Seal or ATS

Temperature range
Static applications: -40°C to +120°C
Moving applications: -18°C to +120°C
Flexibility & fatigue life
Medium flexibility – Medium fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance
Very high

Non-metallic conduit systems

Type A - Adaptalok

Type A - Adaptalok **Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)	Metric thread
AL10/M12/A*	10	M16
-	-	-
AL13/M16/A*	13	M16
AL13/M20/A*	13	M20
-	-	-
AL16/M16/A	16	M16
AL16/M20/A	16	M20
-	-	-
-	-	-
AL21/M20/A	21	M20
-	-	-
AL21/M25/A	21	M25
AL28/M25/A	28	M25
AL28/M32/A	28	M32
AL34/M32/A	34	M32
AL34/M40/A	34	M40
AL42/M40/A	42	M40
AL42/M50/A	42	M50
AL54/M50/A	54	M50
AL54/M63/A	54	M63

Part no.	Nominal conduit size (mm)	PG thread
AL10/PG7/A*	10	PG7
AL10/PG9/A*	10	PG9
AL13/PG9/A*	13	PG9
AL13/PG11/A*	13	PG11
AL13/PG13/A*	13	PG13,5
AL16/PG9/A	16	PG9
AL16/PG11/A	16	PG11
AL16/PG13/A	16	PG13,5
AL16/PG16/A	16	PG16
AL21/PG11/A	21	PG11
AL21/PG13/A	21	PG13,5
AL21/PG16/A	21	PG16
AL28/PG21/A	28	PG21
-	-	-
AL34/PG29/A	34	PG29
-	-	-
AL42/PG36/A	42	PG36
-	-	-
AL54/PG48/A	54	PG48
-	-	-

Part no.	Nominal conduit size (mm)	PF thread
AL10/PF025/A*	10	¼"
AL13/PF038/A*	13	⅜"
AL16/PF038/A	16	⅜"
AL16/PF050/A	16	½"
AL21/PF050/A	21	½"
AL28/PF075/A	28	¾"
AL34/PF100/A	34	1"
AL42/PF125/A	42	1 ¼"
AL54/PF150/A	54	1 ½"
AL54/PF200/A	54	2"

Part no.	Nominal conduit size (mm)	NPT thread (in)
-	-	-
AL13/038/A*	13	⅜
AL16/038/A	16	⅜
AL16/050/A	16	½
AL21/050/A	21	½
AL28/075/A	28	¾
AL34/100/A	34	1
AL42/125/A	42	1 ¼
AL54/150/A	54	1 ½
-	-	-

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY
To order quote part number & body colour, e.g. AL10/M12/A/BL
*These parts are not covered by the RU certification

Approvals

KM35161

IP rating **Appropriate conduit**

For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Fitting characteristics

Non-metallic conduit systems

Type C90 - Adaptalok

Type C90 - Adaptalok **90° elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)	Metric thread
AL10/M12/C90*	10	M12
AL13/M16/C90*	13	M16
AL16/M16/C90	16	M16
AL16/M20/C90	16	M20
-	-	-
AL21/M20/C90	21	M20
-	-	-
AL28/M25/C90	28	M25
AL34/M32/C90	34	M32
AL42/M40/C90	42	M40
AL54/M50/C90	54	M50
AL54/M63/C90	54	M63

Part no.	Nominal conduit size (mm)	PG thread
AL10/PG7/C90*	10	PG7
AL13/PG9/C90*	13	PG9
AL16/PG9/C90	16	PG9
AL16/PG11/C90	16	PG11
AL16/PG13/C90	16	PG13,5
AL21/PG13/C90	21	PG31,5
AL21/PG16/C90	21	PG16
AL28/PG21/C90	28	PG21
AL34/PG29/C90	34	PG29
AL42/PG36/C90	42	PG36
AL54/PG48/C90	54	PG48

Part no.	Nominal conduit size (mm)	PF thread (in)
AL13/PFO38/C90*	13	⅜
AL16/PFO38/C90	16	⅜
AL16/PFO50/C90	16	½
AL21/PFO50/C90	21	½
AL28/PFO75/C90	28	¾
AL34/PF100/C90	34	1
AL42/PF125/C90	42	1 ¼
AL54/PF150/C90	54	1 ½
AL54/PF200/C90	54	2

Part no.	Nominal conduit size (mm)	NPT thread (in)
AL13/038/C90*	13	⅜
AL16/038/C90	16	⅜
AL16/050/C90	16	½
AL21/050/C90	21	½
AL28/075/C90	28	¾
AL34/100/C90	34	1
AL42/125/C90	42	1 ¼
AL54/150/C90	54	1 ½
AL54/200/C90	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY
To order quote part number & body colour, e.g. AL16/M20/C90/BL
*These parts are not covered by the RU certification

Approvals
KM35161 LOW VOLTAGE DIRECTIVE NF

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Non-metallic conduit systems

Type 45 & Push-in - Adaptalok

Type 45 - Adaptalok **45° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/45*	13	M16	AL13/PG9/45*	13	PG9
AL16/M16/45	16	M16	AL16/PG11/45	16	PG11
AL16/M20/45	16	M20	AL16/PG13/45	16	PG13,5
AL21/M20/45	21	M20	AL21/PG13/45	21	PG13,5
-	-	-	AL21/PG16/45	21	PG16
AL28/M25/45	28	M25	AL28/PG21/45	28	PG21
AL34/M32/45	34	M32	AL34/PG29/45	34	PG29
AL42/M50/45	42	M40	AL42/PG36/45	42	PG36
AL54/M50/45	54	M50	AL54/PG48/45	54	PG48
AL54/M63/45	54	M63	-	-	-

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY
To order quote part number & body colour, e.g. AL21/M20/45/BL
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type PA / CP / PR / PF		Static applications: -50°C to +120°C
NF	**IP66**	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Push-in - Adaptalok - **Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)**

Part no.	Nominal conduit size (mm)
AL16/KM20/A	16
AL21/KM20/A	21

Inserts into a 20mm knockout, panel thickness up to 4mm, no locknut required
To order quote part number & body colour, e.g. AL21/KM20/A/BL

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP40	Yes	Moving applications: -45°C to +120°C
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Non-metallic conduit systems

3-Way Coupler & Insert Seal - Adaptalok

3-Way Coupler - Adaptalok

3-Way PA66 fitting / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size combination (mm)
AL131010/Y	13x10x10
AL161313/Y	16x13x13
AL211616/Y	21x16x16
AL282121/Y	28x21x21

For coupling three corrugated flexible conduits
To order quote part number & body colour, e.g. AL131010/Y/BL

Approvals
KM35161 CE NF

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF / PK	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Insert Seal - Adaptalok

IP67/68/69 Insert seal / Materials: Thermoplastic elastomer / Colour: Yellow (Y) Only

Part no.	Conduit pitch
ALS13/F	Fine
ALS16/F	Fine
ALS21/F	Fine
ALS28/C	Coarse
ALS34/C	Coarse
ALS42/C	Coarse
ALS54/C	Coarse

Suitable for standard weight PA/PI/PR conduit (Black or Grey)
To order quote part number, e.g. ALS13/F
Note: Seal needs to be inserted into the appropriate conduit to upgrade fitting system

Approvals
KM35161 CE

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF / PK	
IP66	N/A
IP67	Yes
IP68	Yes (1.1 bar 35mins)
IP69	Yes (DIN 40050)

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Non-metallic conduit systems

Type FL/A, FL/C90 & FL/90 - Adaptalok

Type FL/A - Adaptalok

Straight panel mounting swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)
AL16/FL/A	16
AL21/FL/A	21
AL28/FL/A	28
AL54/FL/A	54

With integral face seal
To order quote part number & body colour, e.g. AL16/FL/A/BL

Approvals
KM35161 CE NF

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Type FL/C90 - Adaptalok

90° Elbow body - Panel mount swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)
AL13/FL/C90	13
AL16/FL/C90	16
AL21/FL/C90	21
AL28/FL/C90	28

For panel mounting via 2 hole fixing & integral face seal
To order quote part number & body colour, e.g. AL13/FL/C90/BL

Type FL/90 - Adaptalok

90° Elbow body - Panel mount flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)
AL34/FL/90	34
AL42/FL/90	42
AL54/FL/90	54

For panel mounting via 4 hole fixing & integral face seal
To order quote part number & body colour, e.g. AL34/FL/C90/BL

Approvals
KM35161 CE NF

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics (FLC/90 ONLY)

Non-metallic conduit systems

Type FL/45 & swivel coupler - Adaptalok

Type FL/45 - Adaptalok

45° Panel mounting swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)
AL16/FL/45	16
AL21/FL/45	21
AL28/FL/45	28
AL54/FL/45	54

With integral face seal
To order quote part number & body colour, e.g. AL16/FL/45/BL

Approvals
KM35161 CE NF

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Swivel coupler - Adaptalok

Straight PA66 body swivel coupler /Materials: Polyamide (nylon) 66 + aluminium / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)
AL13/A/U/BL	13
AL16/A/U/BL	16
AL21/A/U/BL	21
AL28/A/U/BL	28
AL34/A/U/BL	34
AL42/A/U/BL	42
AL54/A/U/BL	54

For coupling two corrugated flexible conduits
To order quote part number, e.g. AL13/A/U/BL

Approvals
KM35161 CE NF

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Non-metallic conduit systems

Type SA & CS90 - Adaptalok

Type SA - Adaptalok

Straight fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, Nickel Plated Brass Thread / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/SA*	13	M16	AL13/PG9/SA*	13	PG9
AL16/M16/SA	16	M16	AL16/PG11/SA	16	PG11
AL21/M20/SA	21	M20	AL21/PG13/SA	21	PG13,5
-	-	-	AL21/PG16/SA	21	PG16
AL28/M25/SA	28	M25	AL28/PG21/SA	28	PG21
AL34/M32/SA	34	M32	AL34/PG29/SA	34	PG29
AL42/M40/SA	42	M40	AL42/PG36/SA	42	PG36
AL54/M50/SA	54	M50	AL54/PG48/SA	54	PG48
AL54/M63/SA	54	M63	-	-	-

For insertion into threaded entries & knockouts using a locknut. Order locknut separately
To order quote part number & body colour, e.g. AL13/M16/SA/BL. NPT also available
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Type CS90 - Adaptalok

90° Elbow fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/CS90*	13	M16	AL13/PG9/CS90*	13	PG9
AL16/M16/CS90	16	M16	AL16/PG11/CS90	16	PG11
AL21/M20/CS90	21	M20	AL21/PG13/CS90	21	PG13,5
-	-	-	AL21/PG16/CS90	21	PG16
AL28/M25/CS90	28	M25	AL28/PG21/CS90	28	PG21
AL34/M32/CS90	34	M32	AL34/PG29/CS90	34	PG29
AL42/M40/CS90	42	M40	AL42/PG36/CS90	42	PG36
AL54/M50/CS90	54	M50	AL54/PG48/CS90	54	PG48
AL54/M63/CS90	54	M63	-	-	-

For insertion into threaded entries & knockouts using a locknut. Order locknut separately
To order quote part number & body colour, e.g. AL13/M16/CS90/BL. NPT also available
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Non-metallic conduit systems

Type S45 & SFA - Adaptalok

Type S45 - Adaptalok

45° Elbow Body - Swivel external male thread / Materials: Polyamide (nylon) 66, Nickel plated brass thread / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/S45*	13	M16	AL13/PG9/S45*	13	PG9
AL16/M16/S45	16	M16	AL16/PG11/S45	16	PG11
AL21/M20/S45	21	M20	AL21/PG13/S45	21	PG13,5
-	-	-	AL21/PG16/S45	21	PG16
AL28/M25/S45	28	M25	AL28/PG21/S45	28	PG21
AL34/M32/S45	34	M32	AL34/PG29/S45	34	PG29
AL42/M40/S45	42	M40	AL42/PG36/S45	42	PG36
AL54/M50/S45	54	M50	AL54/PG48/S45	54	PG48
AL54/M63/S45	54	M63	-	-	-

For insertion into threaded entries & knockouts using a locknut. Order locknut separately
To order quote part number & body colour, e.g. AL13/M16/S45/BL. NPT also available
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Type SFA - Adaptalok

Straight body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/SFA	13	M16	AL13/PG9/SFA	13	PG9
AL16/M16/SFA	16	M16	AL16/PG11/SFA	16	PG11
AL21/M20/SFA	21	M20	AL21/PG13/SFA	21	PG13,5
-	-	-	AL21/PG16/SFA	21	PG16
AL28/M25/SFA	28	M25	AL28/PG21/SFA	28	PG21
AL34/M32/SFA	34	M32	AL34/PG29/SFA	34	PG29
AL42/M40/SFA	42	M40	AL42/PG36/SFA	42	PG36
AL54/M50/SFA	54	M50	AL54/PG48/SFA	54	PG48
AL54/M63/SFA	54	M63		-	-

For attaching to external threads & other fittings
To order quote part number & body colour, e.g. AL13/M16/SFA/BL
NPT also available

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Non-metallic conduit systems

Type CSF90 & SF45 - Adaptalok

Type CSF90 - Adaptalok

90° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/CSF90	13	M16	AL13/PG9/CSF90	13	PG9
AL16/M16/CSF90	16	M16	AL16/PG11/CSF90	16	PG11
AL21/M20/CSF90	21	M20	AL21/PG13/CSF90	16	PG13,5
-	-	-	AL21/PG16/CSF90	21	PG16
AL28/M25/CSF90	28	M25	AL28/PG21/CSF90	28	PG21
AL34/M32/CSF90	34	M32	AL34/PG29/CSF90	34	PG29
AL42/M40/CSF90	42	M40	AL42/PG36/CSF90	42	PG36
AL54/M50/CSF90	54	M50	AL54/PG48/CSF90	54	PG48

For attachment to external threads & other fittings
To order quote part number & body colour, e.g. AL13/M16/CSF90/BL
NPT also available

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Type SF45 - Adaptalok

45° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/SF45	13	M16	AL13/PG9/SF45	13	PG9
AL16/M16/SF45	16	M16	AL16/PG11/SF45	16	PG11
AL21/M20/SF45	21	M20	AL21/PG13/SF45	16	PG13,5
-	-	-	AL21/PG16/SF45	21	PG16
AL28/M25/SF45	28	M25	AL28/PG21/SF45	28	PG21
AL34/M32/SF45	34	M32	AL34/PG29/SF45	42	PG29
AL42/M40/SF45	40	M40	AL42/PG36/SF45	48	PG36
AL54/M50/SF45	50	M50	AL54/PG48/SF45	54	PG48
AL54/M63/SF45	63	M63	-	-	-

For insertion into threaded entries & knockouts using a locknut. Order locknut separately
To order quote part number & body colour, e.g. AL13/M16/CS90/BL. NPT also available
*These parts are not covered by the RU certification

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Non-metallic conduit systems

UNEF Type A

UNEF Type A - Adaptalok

Straight body - Swivel internal female thread / Materials: Polyamide (nylon) 66 & aluminium / Colour: Black (BL) only

Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AL13/U063/A	13	5/8" - 24	AL21/U144/A	21	1 7/16" - 18
AL13/U075/A	13	3/4" - 20	AL21/U175/A	21	1 3/4" - 18
AL13/U088/A	13	7/8" - 20	AL28/U088/A	28	7/8" - 20
AL16/U063/A	16	5/8" - 24	AL28/U094/A	28	15/16" - 20
AL16/U075/A	16	3/4" - 20	AL28/U100/A	28	1" - 20
AL16/U081/A	16	13/16" - 20	AL28/U119/A	28	1 3/16" - 18
AL16/U088/A	16	7/8" - 20	AL28/U138/A	28	1 3/8" - 18
AL16/U094/A	16	15/16" - 20	AL28/U144/A	28	1 7/16" - 18
AL16/U100/A	16	1" - 20	AL28/U175/A	28	1 3/4" - 18
AL16/U119/A	16	1 3/16" - 18	AL28/U200/A	28	2" - 16
AL16/U131/A	16	1 5/16" - 18	AL28/U225/A	28	2 1/4" - 16
AL21/U075/A	21	3/4" - 20	AL34/U100/A	34	1" - 20
AL21/U088/A	21	7/8" - 20	AL34/U119/A	34	1 3/16" - 18
AL21/U094/A	21	15/16" - 20	AL34/U144/A	34	1 7/16" - 18
AL21/U100/A	21	1" - 20	AL34/U175/A	34	1 3/4" - 18
AL21/U113/A	21	1 1/8" - 18	AL34/U200/A	34	2" - 16
AL21/U119/A	21	1 3/16" - 18	AL42/U175/A	42	1 3/4" - 18
AL21/U131/A	21	1 5/16" - 18	AL42/U200/A	42	2" - 16
AL21/U138/A	21	1 3/8" - 18	-	-	-

For coupling to UNEF circular connectors
To order quote part number, e.g. AL13/U063/A and add 000620

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Fitting characteristics

Non-metallic conduit systems

UNEF Type C90 - Adaptalok

UNEF Type C90 - Adaptalok **90° Elbow fitting - Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66 & aluminium / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AL13/U063/C90	13	5/8" - 24	AL21/U144/C90	21	1 7/16" - 18
AL13/U075/C90	13	3/4" - 20	AL21/U175/C90	21	1 3/4" - 18
AL13/U088/C90	16	7/8" - 20	AL28/U088/C90	28	7/8" - 20
AL16/U063/C90	16	5/8" - 24	AL28/U094/C90	28	15/16" - 20
AL16/U075/C90	16	3/4" - 20	AL28/U100/C90	28	1" - 20
AL16/U081/C90	16	13/16" - 20	AL28/U119/C90	28	1 3/16" - 18
AL16/U088/C90	16	7/8" - 20	AL28/U138/C90	28	1 3/8" - 18
AL16/U094/C90	16	15/16" - 20	AL28/U144/C90	28	1 7/16" - 18
AL16/U100/C90	16	1" - 20	AL28/U175/C90	28	1 3/4" - 18
AL16/U119/C90	16	1 3/16" - 18	AL28/U200/C90	28	2" - 16
AL16/U131/C90	16	1 5/16" - 18	AL28/U225/C90	28	2 1/4" - 16
AL21/U075/C90	21	3/4" - 20	AL34/U100/C90	34	1" - 20
AL21/U088/C90	21	7/8" - 20	AL34/U119/C90	34	1 3/16" - 18
AL21/U094/C90	21	15/16" - 20	AL34/U144/C90	34	1 7/16" - 18
AL21/U100/C90	21	1" - 20	AL34/U175/C90	34	1 3/4" - 18
AL21/U113/C90	21	1 1/8" - 18	AL34/U200/C90	34	2" - 16
AL21/U119/C90	21	1 3/16" - 18	AL42/U175/C90	42	1 3/4" - 18
AL21/U131/C90	21	1 5/16" - 18	42/U200/C90	42	2" - 16
AL21/U138/C90	21	1 3/8" - 18	-	-	-

For coupling to UNEF circular connectors
To order quote part number, e.g. AL13/U065/C90 and add 000620

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes + ALS Seal	**Fitting characteristics**
	IP68	Yes + ALS Seal	
	IP69	Yes + ALS Seal	

Non-metallic conduit systems

UNEF Type 45 - Adaptalok

UNEF Type 45 - Adaptalok

45° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66 & aluminium / Colour: Black (BL) only

Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AL13/U063/45	13	5/8" - 24	AL21/U144/45	21	1 7/16" - 18
AL13/U075/45	13	3/4" - 20	AL21/U175/45	21	1 3/4" - 18
AL13/U088/45	13	7/8" - 20	AL28/U088/45	28	7/8" - 20
AL16/U063/45	16	5/8" - 24	AL28/U094/45	28	15/16" - 20
AL16/U075/45	16	3/4" - 20	AL28/U100/45	28	1" - 20
AL16/U081/45	16	13/16" - 20	AL28/U119/45	28	1 3/16" - 18
AL16/U088/45	16	7/8" - 20	AL28/U138/45	28	1 3/8" - 18
AL16/U094/45	16	15/16" - 20	AL28/U144/45	28	1 7/16" - 18
AL16/U100/45	16	1" - 20	AL28/U175/45	28	1 3/4" - 18
AL16/U119/45	16	1 3/16" - 18	AL28/U200/45	28	2" - 16
AL16/U131/45	16	1 5/16" - 18	AL28/U225/45	28	2 1/4" - 16
AL21/U075/45	21	3/4" - 20	AL34/U100/45	34	1" - 20
AL21/U088/45	21	7/8" - 20	AL34/U119/45	34	1 3/16" - 18
AL21/U094/45	21	15/16" - 20	AL34/U144/45	34	1 7/16" - 18
AL21/U100/45	21	1" - 20	AL34/U175/45	34	1 3/4" - 18
AL21/U113/45	21	1 1/8" - 18	AL34/U200/45	34	2" - 16
AL21/U119/45	21	1 3/16" - 18	AL42/U175/45	42	1 3/4" - 18
AL21/U131/45	21	1 5/16" - 18	AL42/U200/45	42	2" - 16
AL21/U138/45	21	1 3/8" - 18	-	-	-

For coupling to UNEF circular connectors
To order quote part number, e.g. AL13/U065/45 and add 000620

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Non-metallic conduit systems

Jumbo Type FL/A - Adaptalok

Jumbo Type FL/A - Adaptalok **Straight panel mounting swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)
ADC80/FL/A	80
ADC106/FL/A	106

For coupling to UNEF circular connectors
To order quote part number, e.g. ADC80/FL/A/BL

Approvals

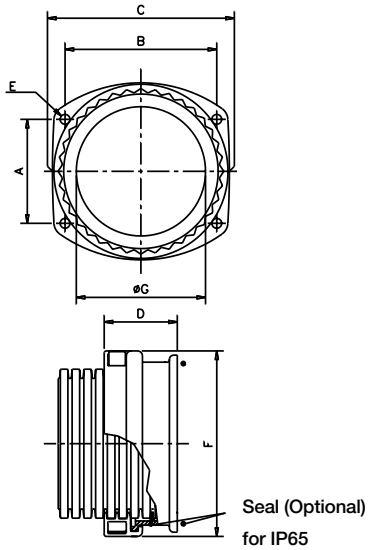
KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP40	Yes
IP65	Yes + ALS Seal
IP68	N/A
IP69	N/A

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Part no.		
ADC80/FL/A	**ADC106/FL/A**	**Nominal size**
60mm	74mm	A
80mm	108mm	B
98mm	126mm	C
52.5mm	52.5mm	D
7mm	7mm	Eø
106mm	132mm	F

For coupling to UNEF circular connectors
To order quote part number, e.g. ADC80/FL/A/BL



Non-metallic conduit systems
Jumbo Type SK

Jumbo Type SK **Sealing kit / Materials: Rubber / Colour: Black (BL) only**

Part no.	Nominal conduit size (mm)
ADC80/FL/A	80
ADC106/FL/A	106

For use with Jumbo fittings to achieve IP65. Consists of two sealing washers & O-ring per kit
To order quote part number, e.g. SK80/BL

Non-metallic conduit systems
Introduction to Adaptalok ATS™

Adaptalok ATS™ represents a unique and innovative solution in flexible conduit systems. Until now, manufacturers have produced fittings and seals separately, and assembled them together, or had the customer assemble them. This increases assembly time and introduces the possibility for errors.

—
01 Caption
—
02 Caption

Adaptalok ATS™ uses a sophisticated moulding process to mould an internal conduit seal and a face seal washer. This makes installation times very fast, and extremely reliable, because the seals cannot be left out. The conduit system also benefits from the highest IP rating possible.

Additional key features:
- Nylon 66 body
- Lighter in weight
- Quicker to install (cut & assemble fittings)
- Wider variety of fittings - much larger solutions choice
- Better fatigue life
- Return to shape

Non-metallic conduit systems

Type A - Adaptalok ATS™

Type A - Adaptalok ATS™

Straight Fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PF thread (in)	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/A	13	M16	AT13/PF038/A	13	⅜	AT13/038/A	13	⅜
AT16/M16/A	16	M16	AT16/PF038/A	16	⅜	AT16/038/A	16	⅜
AT16/M20/A	16	M20	AT16/PF050/A	16	½	AT16/050/A	16	½
AT21/M20/A	21	M20	AT21/PF050/A	21	½	AT21/050/A	21	½
AT21/M25/A	21	M25	-	-	-	-	-	-
AT28/M25/A	28	M25	AT28/PF075/A	28	¾	AT28/075/A	28	¾
AT28/M32/A	28	M32	-	-	-	-	-	-
AT34/M32/A	34	M32	AT34/PF100/A	34	1	AT34/100/A	34	1
AT34/M40/A	34	M40	-	-	-	-	-	-
AT42/M40/A	42	M40	AT42/PF125/A	42	1 ¼	AT42/125/A	42	1 ¼
AT42/M50/A	42	M50	-	-	-	-	-	-
AT48/M50/A	48	M50	AT48/PF150/A	48	1 ½	AT48/150/A	48	1 ½
AT54/M50/A	54	M50	-	-	-	-	-	-
AT54/M63/A	54	M63	AT54/PF200/A	48	2	AT54/200/A	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread
To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/A/BLY

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
	IP40	Yes	Moving applications: -45°C to +120°C
	IP65	Yes	
	IP68	Yes (4 bar 30mins)	
	IP69	Yes	

Non-metallic conduit systems

Type A - Adaptalok ATS™

Type A - Adaptalok ATS™

Straight fitting - Fixed external male thread / Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/A	13	M16	AT13/038/A	13	⅜
AT16/M16/A	16	M16	AT16/038/A	16	⅜
AT16/M20/A	16	M20	AT16/050/A	16	½
AT21/M20/A	21	M20	AT21/050/A	21	½
AT21/M25/A	21	M25	-	-	-
AT28/M25/A	28	M25	AT28/075/A	28	¾
AT28/M32/A	28	M32	-	-	-
AT34/M32/A	34	M32	AT34/100/A	34	1
AT34/M40/A	34	M40	-	-	
AT42/M40/A	42	M40	AT42/125/A	42	1 ¼
AT42/M50/A	42	M50	-	-	-
AT48/M50/A	48	M50	AT48/150/A	48	1 ½
AT54/M50/A	54	M50	-	-	-
AT54/M63/A	54	M63	AT54/200/A	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread
To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/A/BLB

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
	IP40	Yes	Moving applications: -45°C to +120°C
	IP65	Yes	
	IP68	Yes (4 bar 30mins)	
	IP69	Yes	

Non-metallic conduit systems

Type C90 - Adaptalok ATS™

Type C90 - Adaptalok ATS™

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PF thread (in)	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/C90	13	M16	AT13/PF038/C90	13	⅜	AT13/038/C90	13	⅜
AT16/M16/C90	16	M16	AT16/PF038/C90	16	⅜	AT16/038/C90	16	⅜
AT16/M20/C90	16	M20	AT16/PF050/C90	16	½	AT16/050/C90	16	½
AT21/M20/C90	21	M20	AT21/PF050/C90	21	½	AT21/050/C90	21	½
AT21/M25/C90	28	M25	AT28/PF075/C90	28	¾	AT28/075/C90	28	¾
AT28/M32/C90	34	M32	AT34/PF100/C90	34	1	AT34/100/C90	34	1
AT28/M40/C90	42	M40	AT42/PF125/C90	42	1 ¼	AT42/125/C90	42	1 ¼
AT34/M50/C90	48	M50	AT48/PF150/C90	48	1 ½	AT48/150/C90	48	1 ½
AT34/M50/C90	54	M50	AT54/PF150/C90	54	1 ½	AT54/150/C90	54	1 ½
AT42/M63/C90	54	M63	AT54/PF200/C90	54	2	AT54/200/C90	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread
To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/C90/BLY

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
	IP40	Yes	Moving applications: -45°C to +120°C
	IP65	Yes	
	IP68	Yes (4 bar 30mins)	
	IP69	Yes	

Type C90 - Adaptalok ATS™

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Blue (BΩ) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PF thread (in)
13/M16/C90	13	M16	AT13/PF038/C90	13	⅜
16/M16/C90	16	M16	AT16/PF038/C90	16	⅜
16/M20/C90	16	M20	AT16/PF050/C90	16	½
21/M20/C90	21	M20	AT21/PF050/C90	21	½
21/M25/C90	28	M25	AT28/PF075/C90	28	¾
28/M32/C90	34	M32	AT34/PF100/C90	34	1
28/M40/C90	42	M40	AT42/PF125/C90	42	1 ¼
AT34/M50/C90	48	M50	AT48/PF150/C90	48	1 ½
AT34/M50/C90	54	M50	AT54/PF150/C90	54	1 ½
AT42/M63/C90	54	M63	AT54/PF200/C90	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread
To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/A/BLB

Approvals	IP rating	Appropriate conduit	Temperature range
	For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
	IP40	Yes	Moving applications: -45°C to +120°C
	IP65	Yes	
	IP68	Yes (4 bar 30mins)	
	IP69	Yes	

Non-metallic conduit systems

Type 45 - Adaptalok ATS™

Type 45 - Adaptalok ATS™

45° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread
AT13/M16/45	13	M16
AT16/M16/45	16	M16
AT16/M20/45	16	M20
AT21/M20/45	21	M20
AT21/M25/45	28	M25
AT28/M32/45	34	M32
AT28/M40/45	42	M40
AT34/M50/45	48	M50
AT34/M50/45	54	M50

Part no.	Nominal conduit size (mm)	PF thread (in)
AT13/PF038/45	13	⅜
AT16/PF038/45	16	⅜
AT16/PF050/45	16	½
AT21/PF050/45	21	½
AT28/PF075/45	28	¾
AT34/PF100/45	34	1
AT42/PF125/45	42	1 ¼
AT48/PF150/45	48	1 ½
-	-	-

Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/038/45	13	⅜
AT16/038/45	16	⅜
AT16/050/45	16	½
AT21/050/45	21	½
AT28/075/45	28	¾
AT34/100/45	34	1
AT42/125/45	42	1 ¼
AT48/150/45	48	1 ½
-	-	-

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread
To order quote part number, body colour & Elastomer colour, e.g. AT54/M50/45/BLY

Approvals
KM35161 LOW VOLTAGE DIRECTIVE NF

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Type 45 - Adaptalok ATS™

45° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Blue (BΩ) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread
T13/M16/45	13	M16
T16/M16/45	16	M16
T16/M20/45	16	M20
T21/M20/45	21	M20
T21/M25/45	28	M25
T28/M32/45	34	M32
AT28/M40/45	42	M40
AT34/M50/45	48	M50
AT34/M50/45	54	M50

Part no.	Nominal conduit size (mm)	PF thread (in)
AT13/PF038/45	13	⅜
AT16/PF038/45	16	⅜
AT16/PF050/45	16	½
AT21/PF050/45	21	½
AT28/PF075/45	28	¾
AT34/PF100/45	34	1
AT42/PF125/45	42	1 ¼
AT48/PF150/45	48	1 ½
-	-	-

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread
To order quote part number, body colour & Elastomer colour, e.g. AT54/M50/45/BLB

Approvals
KM35161 LOW VOLTAGE DIRECTIVE Intertek NF c US

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Non-metallic conduit systems

Type SA & CS90 - Adaptalok ATS™

Type SA - Adaptalok ATS™

Straight fitting - Metal swivel external male thread / Materials: Polyamide (nylon) 66, Nickel plated brass thread/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/SA	13	M16	AT13/038/SA	13	⅜
AT16/M16/SA	16	M16	AT16/038/SA	16	⅜
AT21/M20/SA	21	M20	AT21/050/SA	21	½
AT28/M25/SA	28	M25	AT28/075/SA	28	¾
AT34/M32/SA	34	M32	AT34/100/SA	34	1
AT42/M40/SA	42	M40	AT42/125/SA	42	1 ¼
AT48/M50/SA	48	M50	AT48/150/SA	48	1 ½
AT54/M50/SA	54	M50	AT54/150/SA	54	1 ½
AT54/M63/SA	54	M63	AT54/200/SA	54	2

For insertion into threaded entries & knockouts. Order locknuts separately
To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SA/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range
		For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
		IP40	Yes	Moving applications: -45°C to +120°C
		IP65	Yes	**Fitting characteristics**
		IP68	Yes (4 bar 30mins)	
		IP69	Yes	

Type CS90 - Adaptalok ATS™

90° Elbow fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/CS90	13	M16	AT13/038/CS90	13	⅜
AT16/M16/CS90	16	M16	AT16/038/CS90	16	⅜
AT21/M20/CS90	21	M20	AT21/050/CS90	21	½
AT28/M25/CS90	28	M25	AT28/075/CS90	28	¾
AT34/M32/CS90	34	M32	AT34/100/CS90	34	1
AT42/M40/CS90	42	M40	AT42/125/CS90	42	1 ¼
AT48/M50/CS90	48	M50	AT48/150/CS90	48	1 ½
AT54/M50/CS90	54	M50	AT54/150/CS90	54	1 ½
AT54/M63/CS90	54	M63	AT54/200/CS90	54	2

For insertion into threaded entries & knockouts. Order locknuts separately
To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SA/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range
		For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
		IP40	Yes	Moving applications: -45°C to +120°C
		IP65	Yes	**Fitting characteristics**
		IP68	Yes (4 bar 30mins)	
		IP69	Yes	

Non-metallic conduit systems

Type S45 & SFA - Adaptalok ATS™

Type S45 - Adaptalok ATS™

45° Elbow body - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE
Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/S45	13	M16	AT13/038/S45	13	⅜
AT16/M16/S45	16	M16	AT16/038/S45	16	⅜
AT21/M20/S45	21	M20	AT21/050/S45	21	½
AT28/M25/S45	28	M25	AT28/075/S45	28	¾
AT34/M32/S45	34	M32	AT34/100/S45	34	1
AT42/M40/S45	42	M40	AT42/125/S45	42	1 ¼
AT48/M50/S45	48	M50	AT48/150/S45	48	1 ½
AT54/M50/S45	54	M50	AT54/150/S45	54	1 ½
AT54/M63/S45	54	M63	AT54/200/S45	54	2

For insertion into threaded entries & knockouts. Order locknuts separately
To order quote part number, body colour & Elastomer colour, e.g. AT54/M63/S45/BLB

Approvals	Blue Elastomer version only
KM35161, CE LOW VOLTAGE DIRECTIVE, NF, UNI	Intertek, c US

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Type SFA - Adaptalok ATS™

Straight fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE
Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/SFA	13	M16	AT13/038/SFA	13	⅜
AT16/M16/SFA	16	M16	AT16/038/SFA	16	⅜
AT21/M20/SFA	21	M20	AT21/050/SFA	21	½
AT28/M25/SFA	28	M25	AT28/075/SFA	28	¾
AT34/M32/SFA	34	M32	AT34/100/SFA	34	1
AT42/M40/SFA	42	M40	AT42/125/SFA	42	1 ¼
AT48/M50/SFA	48	M50	AT48/150/SFA	48	1 ½
AT54/M50/SFA	54	M50	-	-	-
AT54/M63/SFA	54	M63	AT54/200/SFA	54	2

For attachments to external threads & other fittings
To order quote part number, body colour & Elastomer colour, e.g. AT54/M63/SFA/BLB

Approvals	Blue Elastomer version only
KM35161, CE LOW VOLTAGE DIRECTIVE, NF, UNI	Intertek, c US

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Non-metallic conduit systems

Type CSF90 & SF45 - Adaptalok ATS™

Type CSF90 - Adaptalok ATS™

90° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/CSF90	13	M16	AT13/038/CSF90	13	⅜
AT16/M16/CSF90	16	M16	AT16/038/CSF90	16	⅜
AT21/M20/CSF90	21	M20	AT21/050/CSF90	21	½
AT28/M25/CSF90	28	M25	AT28/075/CSF90	28	¾
AT34/M32/CSF90	34	M32	AT34/100/CSF90	34	1
AT42/M40/CSF90	42	M40	AT42/125/CSF90	42	1 ¼
AT48/M50/CSF90	48	M50	AT48/150/CSF90	48	1 ½
AT54/M50/CSF90	54	M50	-	-	-
AT54/M63/CSF90	54	M63	AT54/200/CSF90	54	2

For insertion into threaded entries & knockouts. Order locknuts separately
To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/CSF90/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range
		For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
		IP40	Yes	Moving applications: -45°C to +120°C
		IP65	Yes	**Fitting characteristics**
		IP68	Yes (4 bar 30mins)	
		IP69	Yes	

Type SF45 - Adaptalok ATS™

45° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/SF45	13	M16	AT13/038/SF45	13	⅜
AT16/M16/SF45	16	M16	AT16/038/SF45	16	⅜
AT21/M20/SF45	21	M20	AT21/050/SF45	21	½
AT28/M25/SF45	28	M25	AT28/075/SF45	28	¾
AT34/M32/SF45	34	M32	AT34/100/SF45	34	1
AT42/M40/SF45	42	M40	AT42/125/SF45	42	1 ¼
AT48/M50/SF45	48	M50	AT48/150/SF45	48	1 ½
AT54/M50/SF45	54	M50	-	-	-
AT54/M63/SF45	54	M63	AT54/200/SF45	54	2

For attaching to external threads & other fittings
To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SF45/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range
		For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
		IP40	Yes	Moving applications: -45°C to +120°C
		IP65	Yes	**Fitting characteristics**
		IP68	Yes (4 bar 30mins)	
		IP69	Yes	

Non-metallic conduit systems

Swivel Housing Type SFAJ, CSF90J & SF45J - Adaptalok ATS™

Type SFAJ - Adaptalok ATS™

Straight fitting - Swivel housing / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE
Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread
AT16/M16/SFAJ	16	M16
AT21/M20/SFAJ	21	M20
AT28/M25/SFAJ	28	M25
AT34/M32/SFAJ	34	M32
AT42/M40/SFAJ	42	M40
AT54/M50/SFAJ	54	M50
AT54/M63/SFAJ	54	M63

Swivel metal housing for use with Jacob PERFECT cable glands
To order quote part number, body colour & Elastomer colour, e.g. AT54/M63/SFAJ/BLY

Type CSF90J - Adaptalok ATS™

90° Elbow body - Swivel Housing / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE
Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread
AT16/M16/CSF90J	16	M16
AT21/M20/CSF90J	21	M20
AT28/M25/CSF90J	28	M25
AT34/M32/CSF90J	34	M32
AT42/M40/CSF90J	42	M40
AT54/M50/CSF90J	54	M50
AT54/M63/CSF90J	54	M63

Swivel metal housing for use with Jacob PERFECT cable glands
To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/CSF90J/BLY

Type SF45 - Adaptalok ATS™

45° Elbow body - Swivel housing / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE
Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread
AT16/M16/SF45J	16	M16
AT21/M20/SF45J	21	M20
AT28/M25/SF45J	28	M25
AT34/M32/SF45J	34	M32
AT42/M40/SF45J	42	M40
AT54/M50/SF45J	54	M50
AT54/M63/SF45J	54	M63

Swivel metal housing for use with Jacob PERFECT cable glands
To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SF45J/BLY

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69	N/A

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Fitting characteristics

Non-metallic conduit systems

UNEF Type SFA - Adaptalok ATS™

UNEF Type SFA - Adaptalok ATS™

Straight body - Swivel internal female thread / Materials: Polyamide (nylon) 66, aluminium/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AT13/U063/SFA	13	5/8" - 24	AT21/U144/SFA	21	1 7/16" - 18
AT13/U075/SFA	13	3/4" - 20	AT21/U175/SFA	21	1 3/4" - 18
AT13/U088/SFA	13	7/8" - 20	AT28/U088/SFA	28	7/8" - 20
AT16/U063/SFA	16	5/8" - 24	AT28/U094/SFA	28	15/16" - 20
AT16/U075/SFA	16	3/4" - 20	AT28/U100/SFA	28	1" - 20
AT16/U081/SFA	16	13/16" - 20	AT28/U119/SFA	28	1 3/16" - 18
AT16/U088/SFA	16	7/8" - 20	AT28/U138/SFA	28	1 3/8" - 18
AT16/U094/SFA	16	15/16" - 20	AT28/U144/SFA	28	1 7/16" - 18
AT16/U100/SFA	16	1" - 20	AT28/U175/SFA	28	1 3/4" - 18
AT16/U119/SFA	16	1 3/16" - 18	AT28/U200/SFA	28	2" - 16
AT16/U131/SFA	16	1 5/16" - 18	AT28/U225/SFA	28	2 1/4" - 16
AT21/U075/SFA	21	3/4" - 20	AT34/U100/SFA	34	1" - 20
AT21/U088/SFA	21	7/8" - 20	AT34/U119/SFA	34	1 3/16" - 18
AT21/U094/SFA	21	15/16" - 20	AT34/U144/SFA	34	1 7/16" - 18
AT21/U100/SFA	21	1" - 20	AT34/U175/SFA	34	1 3/4" - 18
AT21/U113/SFA	21	1 1/8" - 18	AT34/U200/SFA	34	2" - 16
AT21/U119/SFA	21	1 3/16" - 18	AT42/U175/SFA	42	1 3/4" - 18
AT21/U131/SFA	21	1 5/16" - 18	AT42/U200/SFA	42	2" - 16
AT21/U138/SFA	21	1 3/8" - 18	-	-	-

For coupling to UNEF circular connectors
To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/SFA/BLB

Approvals

KM35161

Blue Elastomer version only

Intertek

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Fitting characteristics

Non-metallic conduit systems

UNEF Type CSF90 - Adaptalok ATS™

UNEF Type CSF90 - Adaptalok ATS™

90° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AT13/U063/CSF90	13	5/8" - 24	AT21/U144/CSF90	21	1 7/16" - 18
AT13/U075/CSF90	13	3/4" - 20	AT21/U175/CSF90	21	1 3/4" - 18
AT13/U088/CSF90	13	7/8" - 20	AT28/U088/CSF90	28	7/8" - 20
AT16/U063/CSF90	16	5/8" - 24	AT28/U094/CSF90	28	15/16" - 20
AT16/U075/CSF90	16	3/4" - 20	AT28/U100/CSF90	28	1" - 20
AT16/U081/CSF90	16	13/16" - 20	AT28/U119/CSF90	28	1 3/16" - 18
AT16/U088/CSF90	16	7/8" - 20	AT28/U138/CSF90	28	1 3/8" - 18
AT16/U094/CSF90	16	15/16" - 20	AT28/U144/CSF90	28	1 7/16" - 18
AT16/U100/CSF90	16	1" - 20	AT28/U175/CSF90	28	1 3/4" - 18
AT16/U119/CSF90	16	1 3/16" - 18	AT28/U200/CSF90	28	2" - 16
AT16/U131/CSF90	16	1 5/16" - 18	AT28/U225/CSF90	28	2 1/4" - 16
AT21/U075/CSF90	21	3/4" - 20	AT34/U100/CSF90	34	1" - 20
AT21/U088/CSF90	21	7/8" - 20	AT34/U119/CSF90	34	1 3/16" - 18
AT21/U094/CSF90	21	15/16" - 20	AT34/U144/CSF90	34	1 7/16" - 18
AT21/U100/CSF90	21	1" - 20	AT34/U175/CSF90	34	1 3/4" - 18
AT21/U113/CSF90	21	1 1/8" - 18	AT34/U200/CSF90	34	2" - 16
AT21/U119/CSF90	21	1 3/16" - 18	AT42/U175/CSF90	42	1 3/4" - 18
AT21/U131/CSF90	21	1 5/16" - 18	AT42/U200/CSF90	42	2" - 16
AT21/U138/CSF90	21	1 3/8" - 18	-	-	-

For coupling to UNEF circular connectors
To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/CSF90/BLB

Approvals

Blue Elastomer version only

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Fitting characteristics

Non-metallic conduit systems

UNEF Type SF45 - Adaptalok ATS™

UNEF Type SF45 - Adaptalok ATS™

45° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, aluminium/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread
AT13/U063/SF45	13	5/8" - 24	AT21/U144/SF45	21	1 7/16" - 18
AT13/U075/SF45	13	3/4" - 20	AT21/U175/SF45	21	1 3/4" - 18
AT13/U088/SF45	13	7/8" - 20	AT28/U088/SF45	28	7/8" - 20
AT16/U063/SF45	16	5/8" - 24	AT28/U094/SF45	28	15/16" - 20
AT16/U075/SF45	16	3/4" - 20	AT28/U100/SF45	28	1" - 20
AT16/U081/SF45	16	13/16" - 20	AT28/U119/SF45	28	1 3/16" - 18
AT16/U088/SF45	16	7/8" - 20	AT28/U138/SF45	28	1 3/8" - 18
AT16/U094/SF45	16	15/16" - 20	AT28/U144/SF45	28	1 7/16" - 18
AT16/U100/SF45	16	1" - 20	AT28/U175/SF45	28	1 3/4" - 18
AT16/U119/SF45	16	1 3/16" - 18	AT28/U200/SF45	28	2" - 16
AT16/U131/SF45	16	1 5/16" - 18	AT28/U225/SF45	28	2 1/4" - 16
AT21/U075/SF45	21	3/4" - 20	AT34/U100/SF45	34	1" - 20
AT21/U088/SF45	21	7/8" - 20	AT34/U119/SF45	34	1 3/16" - 18
AT21/U094/SF45	21	15/16" - 20	AT34/U144/SF45	34	1 7/16" - 18
AT21/U100/SF45	21	1" - 20	AT34/U175/SF45	34	1 3/4" - 18
AT21/U113/SF45	21	1 1/8" - 18	AT34/U200/SF45	34	2" - 16
AT21/U119/SF45	21	1 3/16" - 18	AT42/U175/SF45	42	1 3/4" - 18
AT21/U131/SF45	21	1 5/16" - 18	AT42/U200/SF45	42	2" - 16
AT21/U138/SF45	21	1 3/8" - 18	-	-	-

For coupling to UNEF circular connectors
To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/SF45/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range
		For use with: Type PA / PR / PADL / PF		Static applications: -50°C to +120°C
		IP40	Yes	Moving applications: -45°C to +120°C
		IP65	Yes	**Fitting characteristics**
		IP68	Yes (4 bar 30mins)	
		IP69	Yes	

Non-metallic conduit systems

Swivel Coupler & Panel Mounting Type FL/A - Adaptalok ATS™

Swivel Coupler - Adaptalok ATS™

Straight PA66 body - Swivel coupler / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)
AT13/A/U	13
AT16/A/U	16
AT21/A/U	21
AT28/A/U	28
AT34/A/U	34
AT42/A/U	42
AT48/A/U	48
AT54/A/U	54

For coupling to corrugated flexible conduit
To order quote part number, body colour & Elastomer colour, e.g. AT21/A/U/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	
KM35161 CE LOW VOLTAGE DIRECTIVE	Intertek	**For use with:** Type PA / PR / PADL / PF		Static applications: -50°C to +120°C	
NF UNI		**IP40**	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes	**Fitting characteristics**	
		IP68	Yes (4 bar 30mins)		
		IP69	Yes		

Panel Mounting Type FL/A - Adaptalok ATS™

Straight panel mounting-swivel flange / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)
AT16/FL/A	16
AT21/FL/A	21
AT28/FL/A	28

With integral face seal
To order quote part number, body colour & Elastomer colour, e.g. AT21/FL/A/BLB

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	
KM35161 CE LOW VOLTAGE DIRECTIVE	Intertek	**For use with:** Type PA / PR / PADL / PF		Static applications: -50°C to +120°C	
NF UNI		**IP40**	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes	**Fitting characteristics**	
		IP68	Yes (4 bar 30mins)		
		IP69	Yes		

Non-metallic conduit systems

Panel Mounting Type FL/C90 & FL45 - Adaptalok ATS™

Panel Mounting Type FL/C90 - Adaptalok ATS™

90° Elbow body - Panel mounting swivel flange / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)
AT13/FL/C90	13
AT16/FL/C90	16
AT21/FL/C90	21
AT28/FL/C90	28

For panel mounting via 2 hole fixing & integral face seal
To order quote part number, body colour & Elastomer colour, e.g. AT21/FL/C90/BLB

Approvals	Blue Elastomer version only
KM35161 CE LOW VOLTAGE DIRECTIVE	Intertek
NF UNI	

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Panel Mounting Type FL45 - Adaptalok ATS™

45° Elbow body - Panel mounting swivel flange / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Yellow (W), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)
AT16/FL/45	16
AT21/FL/45	21
AT28/FL/45	28

With integral face seal
To order quote part number, body colour & Elastomer colour, e.g. AT21/FL/45/BLB

Approvals	Blue Elastomer version only
KM35161 CE LOW VOLTAGE DIRECTIVE	Intertek
NF UNI	

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

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C
Fitting characteristics

Non-metallic conduit systems

Type T - Adaptalok ATS™

Type T- Adaptalok ATS™ — **3 Way 'T' piece / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer**

		Nominal dimensions / Conduit size (mm)				
	Part no.	A	B	C	D	E
21T	AT211316/T	82	129	21	16	13
	AT211321/T	82	122	21	21	13
	AT211613/T	83	129	21	13	16
	AT211616/T	83	129	21	16	16
	AT211621/T	83	122	21	21	16
	AT212113/T	75	129	21	21	13
	AT211616/T	83	129	21	16	16
	AT212121/T	77	122	21	21	21
28T	AT212821/T	82	152	21	21	28
	AT281321/T	88	141	28	21	13
	AT281328/T	88	129	28	28	13
	AT281621/T	90	141	28	21	16
	AT281628/T	90	129	28	28	16
	AT282121/T	93	141	28	21	21
	AT282128/T	93	129	28	28	21
	AT282828/T	82	129	28	28	28
34T	AT341634/T	98	139	34	34	16
	AT342128/T	104	150	34	28	21
	AT342134/T	104	139	34	34	21
	AT343434/T	91	139	34	34	34

To order quote part number, body colour & Elastomer colour, e.g. AT211316/T/BLY

Approvals

KM35161

IP rating — **Appropriate conduit**

For use with: Type PA / PR / PADL / PF

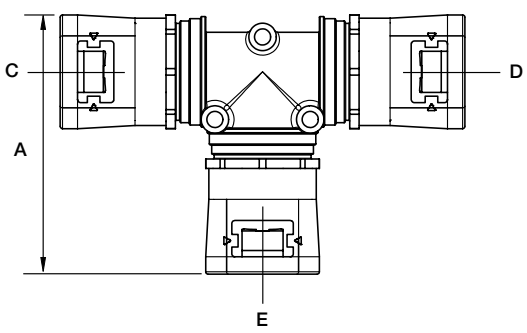
IP66	Yes
IP67	Yes
IP68	Yes (4 bar 30mins)
IP69	Yes

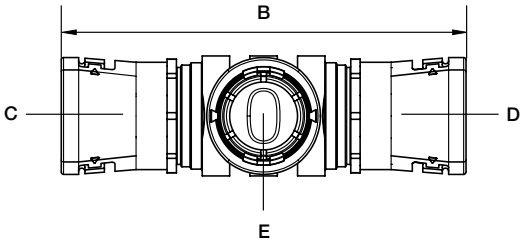
Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics





Non-metallic conduit systems

Type T - Adaptalok ATS™

Type T- Adaptalok ATS™ **3 Way 'T' piece / Materials: Polyamide (nylon) 66, / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer**

		Nominal dimensions/conduit size (mm)				
	Part no.	A	B	C	D	E
28Y	AT282113/Y	107.1	117.8	28	21	13
	AT282116/Y	110.6	117.8	28	21	16
	AT282121/Y	116.4	129.9	28	21	21
	AT282813/Y	108.7	124.6	28	28	13
	AT282816/Y	112.2	124.6	28	28	16
	AT282821/Y	116.6	124.6	28	28	21
	AT282828/Y	165.0	119.0	28	28	28

To order quote part number, body colour & Elastomer colour, e.g. AT282113/Y/BLY

Approvals

KM35161

IP rating **Appropriate conduit**

For use with: Type PA / PR / PADL / PF

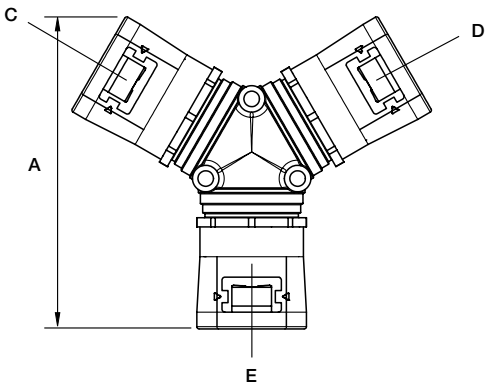
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69	Yes

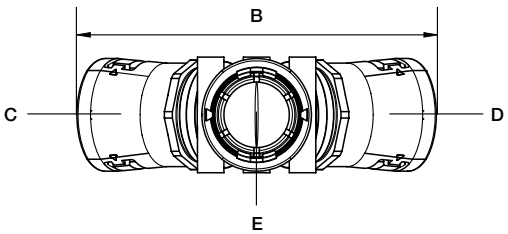
Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics





Corrosion-resistant composite fittings Introduction

Range overview - Corrosion-resistant composite fittings for light rail and applications in exposed areas.

—
01 Type PCC/PCF - CS90 - 90° Elbow fitting - Swivel external male thread

—
02 Type PCC/PCF - S45 - Composite 45° elbow fitting - Swivel external male thread

Offering reduced weight, enhanced strength providing and a smooth, unrestricted internal bore in demanding applications.

Typical applications:
- Areas of potential high impact
- Train bogies
- Areas where additional mechanical need to protect against damage
- Rail infrastructure
- Trackside
- Machinery and equipment

Features:
- PCC - Coarse pitch conduit
- PCF - Fine pitch conduit
- Smooth through bore
- High strength and high impact resistance
- Full swivel function on elbow fittings
- Lightweight
- For insertion into threaded entries and knockouts using a locknut. Locknut supplied separately

LOW VOLTAGE DIRECTIVE

KM35161

Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval & UL amongst others.

—
01

—
02

Non-metallic conduit systems

Type PCC/PCF - A Type

Type PCC/PCF - A Type **Straight fitting - Fixed external male thread / Materials: Nickel plated brass, neoprene seals**

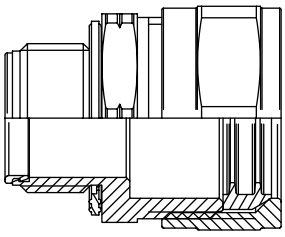
Standard thread length			Short thread length		
Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/A*	13	M16	PCF13/M16S/A*	13	M16S
PCF16/M16/A	16	M16	PCF16/M16S/A	16	M16S
PCF21/M20/A	21	M20	PCF21/M20S/A	21	M20S
PCC28/M25/A	28	M25	PCC28/M25S/A	28	M25S
PCC34/M32/A	34	M32	PCC34/M32S/A	34	M32S
PCC42/M40/A	42	M40	PCC42/M40S/A	42	M40S
PCC54/M50/A	54	M50	PCC54/M50S/A	54	M50S

For insertion into threaded entries and knockouts using a locknut. Locknut supplied separately
*These parts are not covered by the RU certification

Approvals
KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PADL & PF	
IP66	Yes
IP67	Yes
IP68	Yes (4 bar 30mins)
IP69	Yes

Temperature range
Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C



Standard thread length

Non-metallic conduit systems

Type PCC/PCF - CS90

Type PCC/PCF - CS90

90° Elbow fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass, neoprene seals / Colour: Black (BL) Only

Standard thread length

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/CS90*	13	M16
PCF16/M16/CS90	16	M16
PCF21/M20/CS90	21	M20
PCC28/M25/CS90	28	M25
PCC34/M32/CS90	34	M32
PCC42/M40/CS90	42	M40
PCC54/M50/CS90	54	M50

Short thread length

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16S/CS90*	13	M16S
PCF16/M16S/CS90	16	M16S
PCF21/M20S/CS90	21	M20S
PCC28/M25S/CS90	28	M25S
PCC34/M32S/CS90	34	M32S
PCC42/M40S/CS90	42	M40S
PCC54/M50S/CS90	54	M50S

Housing to suit Jacob cable gland

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/CS90/J*	13	M16
PCF16/M16/CS90/J	16	M16
PCF21/M20/CS90/J	21	M20
PCC28/M25/CS90/J	28	M25
PCC34/M32/CS90/J	34	M32
PCC42/M40/CS90/J	42	M40
PCC54/M50/CS90/J	54	M50

Fitting complete with cable gland

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/S45/JRL*	13	M16
PCF16/M16/S45/JRL	16	M16
PCF21/M20/S45/JRL	21	M20
PCC28/M25/S45/JRL	28	M25
PCC34/M32/S45/JRL	34	M32
PCC42/M40/S45/JRL	42	M40
PCC54/M50/S45/JRL	54	M50
PCF21/M20/S45/JLL	21	M20
PCC28/M25/S45/JLL	28	M25
PCC34/M32/S45/JLL	34	M32
PCC42/M40/S45/JLL	42	M40
PCC54/M50/S45/JLL	54	M50

For insertion into threaded entries and knockouts using a locknut. Locknut supplied separately
To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/CSF90/BLB

Approvals

KM35161

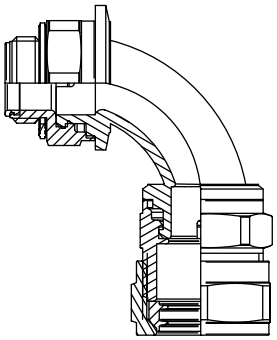
IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PADL & PF	
IP66	Yes
IP67	Yes
IP68	Yes (4 bar 30mins)
IP69	Yes

Temperature range

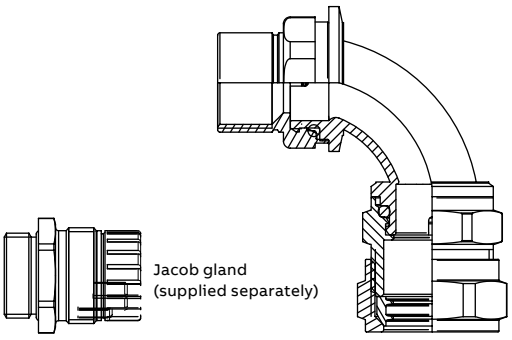
Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

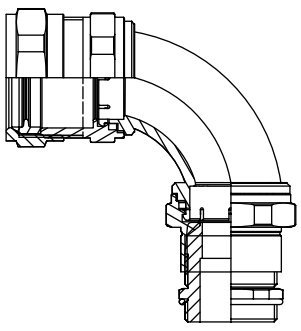
Fitting characteristics



Standard thread length



Housing to suit Jacob cable gland



Fitting complete with cable gland

Non-metallic conduit systems

Type PCC/PCF - S45

Type PCC/PCF - S45

Composite 45° elbow fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass, neoprene seals / Colour: Black (BL) Only

Standard thread length

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/S45*	13	M16
PCF16/M16/S45	16	M16
PCF21/M20/S45	21	M20
PCC28/M25/S45	28	M25
PCC34/M32/S45	34	M32
PCC42/M40/S45	42	M40
PCC54/M50/S45	54	M50

Short thread length

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16S/S45*	13	M16S
PCF16/M16S/S45	16	M16S
PCF21/M20S/S45	21	M20S
PCC28/M25S/S45	28	M25S
PCC34/M32S/S45	34	M32S
PCC42/M40S/S45	42	M40S
PCC54/M50S/S45	54	M50S

Housing to suit Jacob cable gland

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/S45/J*	13	M16
PCF16/M16/S45/J	16	M16
PCF21/M20/S45/J	21	M20
PCC28/M25/S45/J	28	M25
PCC34/M32/S45/J	34	M32
PCC42/M40/S45/J	42	M40
PCC54/M50/S45/J	54	M50

Fitting complete with cable gland

Part no.	Nominal conduit size (mm)	Metric thread
PCF13/M16/S45/JRL*	13	M16
PCF16/M16/S45/JRL	16	M16
PCF21/M20/S45/JRL	21	M20
PCC28/M25/S45/JRL	28	M25
PCC34/M32/S45/JRL	34	M32
PCC42/M40/S45/JRL	42	M40
PCC54/M50/S45/JRL	54	M50
PCF21/M20/S45/JLL	21	M20
PCC28/M25/S45/JLL	28	M25
PCC34/M32/S45/JLL	34	M32
PCC42/M40/S45/JLL	42	M40
PCC54/M50/S45/JLL	54	M50

For insertion into threaded entries and knockouts using a locknut. Locknut supplied separately
To order quote part number & body colour, e.g. PCF13/M16/S45/BL
*These parts are not covered by the RU certification

Approvals

KM35161

IP rating — **Appropriate conduit**

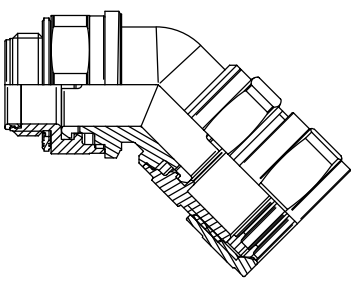
For use with: Type PA / CP / PR / PADL & PF

IP66	Yes
IP67	Yes
IP68	Yes (4 bar 30mins)
IP69	Yes

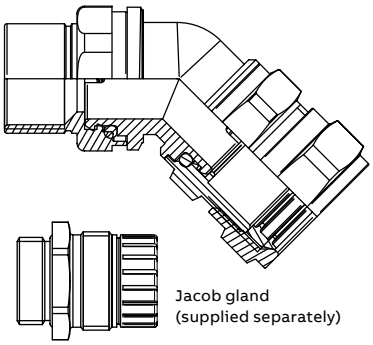
Temperature range

Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

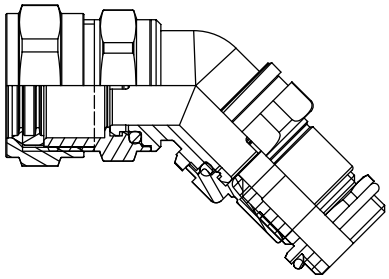
Fitting characteristics



Standard thread length



Housing to suit Jacob cable gland



Fitting complete with cable gland

Non-metallic conduit systems

Type A & C90 - Adaptaseal

Type A - Adaptaseal

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
ASF10/M16/A	10	M16	ASF10/PG9/A	10	PG9
ASF13/M16/A	13	M16	ASF13/PG9/A	13	PG9
ASF16/M16/A	16	M16	ASF16/PG11/A	16	PG11
ASF16/M20/A	16	M20	ASF16/PG13/A	16	PG13,5
ASF21/M20/A	21	M20	ASF21/PG16/A	21	PG16
ASC21/M20/A	21	M20	ASC21/PG16/A	21	PG16
ASF28/M25/A	28	M25	ASF28/PG21/A	28	PG21
ASC28/M25/A	28	M25	ASC28/PG21/A	28	PG21
ASF34/M32/A	34	M32	ASF34/PG29/A	34	PG29
ASC34/M32/A	34	M32	ASC34/PG29/A	34	PG29
ASC42/M40/A	42	M40	ASC42/PG36/A	42	PG36
ASC54/M50/A	54	M50	ASC54/PG48/A	54	PG48

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY
To order quote part number & body colour, e.g. ASF10/M16/A/BL
PF & NPT thread sizes available

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type PA / CP / PR / PF		Static applications: -40°C to +120°C
	IP66	Yes	Moving applications: -5°C to +120°C
	IP67	Yes	
	IP68	Yes (2 bar 30mins)	
	IP69	Yes	

Type C90 - Adaptaseal

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG Thread
ASF10/M16/C90	10	M16	ASF10/PG9/C90	10	PG9
ASF13/M16/C90	13	M16	ASF13/PG9/C90	13	PG9
ASF16/M16/C90	16	M16	ASF16/PG11/C90	16	PG11
ASF16/M20/C90	16	M20	ASF16/PG13/C90	16	PG13,5
ASF21/M20/C90	21	M20	ASF21/PG16/C90	21	PG16
ASC21/M20/C90	21	M20	ASC21/PG16/C90	21	PG16
ASF28/M25/C90	28	M25	ASF28/PG21/C90	28	PG21
ASC28/M25/C90	28	M25	ASC28/PG21/C90	28	PG21
ASF34/M32/C90	34	M32	ASF34/PG29/C90	34	PG29
ASC34/M32/C90	34	M32	ASC34/PG29/C90	34	PG29
ASC42/M40/C90	42	M40	ASC42/PG36/C90	42	PG36
ASC54/M50/C90	54	M50	ASC54/PG48/C90	54	PG48

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY
To order quote part number & body colour, e.g. ASF10/M16/C90/BL
PF & NPT thread sizes available

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type PA / CP / PR / PF		Static applications: -40°C to +120°C
	IP66	Yes	Moving applications: -5°C to +120°C
	IP67	Yes	
	IP68	Yes (2 bar 30mins)	
	IP69	Yes	

Non-metallic conduit systems

Type FLC90/FL90 & T - Adaptaseal

Type FLC90/FL90 - Adaptaseal

90° Elbow body - Panel mount swivel flange / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

Part no.	Nominal conduit size (mm)
ASF13/FL/C90	13
ASF16/FL/C90	16
ASF21/FL/C90	21
ASC21/FL/C90	21
ASF28/FL/C90	28
ASC28/FL/C90	28
ASF34/FL/90*	34
ASC34/FL/90*	34
ASC42/FL/90*	42
ASC54/FL/90*	54

For panel mounting via 2/4 hole fixing & integral face seal
To order quote part number & body colour, e.g. ASF13/FL/C90/BL
*These sizes are fixed panel mounting - non swivel

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161 LOW VOLTAGE DIRECTIVE	**For use with:** Type PA / CP / PR / PF		Static applications: -40°C to +120°C
	IP66	Yes	Moving applications: -5°C to +120°C
	IP67	Yes	
	IP68	Yes (2 bar 30mins)	
	IP69	Yes	

Type T - Adaptaseal

Inspection T-piece / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)
ASF10X3/T	10
ASF13X3/T	13
ASF16X3/T	16
ASF21X3/T	21
ASC21X3/T	21
ASF28X3/T	28
ASC28X3/T	28
ASF34X3/T	34
ASC34X3/T	34

For connection to corrugated flexible conduit
To order quote part number & body colour, e.g. ASF10X3/T/BL

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161 LOW VOLTAGE DIRECTIVE	**For use with:** Type PA / CP / PR / PF		Static applications: -40°C to +120°C
	IP66	Yes	Moving applications: -5°C to +120°C
	IP67	Yes	
	IP68	N/A	
	IP69	N/A	

Non-metallic conduit systems

Type RK & AWB - Adaptaseal

Type RK - Adaptaseal — **Reducing kit / Materials: Polyamide (nylon) 66 & neoprene rubber / Colour: Black (BL) Only**

Nominal conduit size (mm)	Conduit pitch	Part no. Reducing to conduit size 10	Reducing to conduit size 13	Reducing to conduit size 16	Reducing to conduit size 21	Reducing to conduit size 28
10	Fine	-	-	-	-	-
13	Fine	RK13-10	-	-	-	-
16	Fine	RK16-10	RK16-13	-	-	-
21	Fine	RK21-10	RK21-13	RK21-16	-	-
21	Coarse	RK21-10	RK21-13	RK21-16	-	-
28	Fine	-	RK28-13	RK28-16	RK28-21	-
28	Coarse	-	RK28-13	RK28-16	RK28-21	-
34	Fine	-	-	-	RK34-21	RK34-28
34	Coarse	-	-	-	RK34-21	RK34-28

For connection to a reduced conduit size
To order quote part number, e.g. RK13-10/BL

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161 LOW VOLTAGE DIRECTIVE	**For use with:** Type PA / CP / PR / PF		Static applications: -40°C to +120°C
	IP66	Yes	Moving applications: -5°C to +120°C
	IP67	Yes	
	IP68	Yes (2 bar 30mins)	
	IP69	Yes	

Type AWB - Adaptaseal — **Anti-vibration washer / Materials: Acetal (POM) / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)
AWB13	13
AWB16	16
AWB21	21
AWB28	28
AWB34	34

Prevents fitting loosening under vibration

Non-metallic conduit systems

Type A & C90 - Adaptaring

Type A - Adaptaring

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 & acetal (POM) / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AR13/M16/A	13	M16	AR13/PG9/A	13	PG9
AR16/M16/A	16	M16	AR16/PG11/A	16	PG11
AR16/M20/A	16	M20	AR16/PG13/A	16	PG13,5
AR21/M20/A	21	M20	AR21/PG16/A	21	PG16
AR28/M25/A	28	M25	AR28/PG21/A	28	PG21
AR34/M32/A	34	M32	AR34/PG29/A	34	PG29
AR42/M40/A	42	M40	AR42/PG36/A	42	PG36
AR54/M50/A	54	M50	AR54/PG48/A	54	PG48

For insertion into threaded entries & knockouts. Locknut supplied with METRIC THREAD ONLY
To order quote part number, e.g. AR21/M20/A/BL
PF & NPT thread sizes available

Approvals
KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Fitting characteristics

Type C90 - Adaptaring

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Part no.	Nominal conduit size (mm)	Metric thread
AR13/M16/C90	13	M16
AR16/M16/C90	16	M16
AR16/M20/C90	16	M20
AR21/M20/C90	21	M20
AR28/M25/C90	28	M25
AR34/M32/C90	34	M32
AR42/M40/C90	42	M40
AR54/M50/C90	54	M50

For insertion into knockouts. Locknut supplied with METRIC THREAD ONLY
To order quote part number & body colour, e.g. AR21/M20/C90/BL
PF & NPT thread sizes available

Approvals
KM35161

IP rating	Appropriate conduit
For use with: Type PA / CP / PR / PF	
IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Fitting characteristics

Non-metallic conduit systems

Type T & AWB - Adaptaring

Type T - Adaptaring

Rotational inspection T-piece / Materials: Polyamide (nylon) 66 & neoprene rubber / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)
AR13X3/T	13
AR16X3/T	16
AR21X3/T	21
AR28X3/T	28
AR34X3/T	34

For connection to corrugated flexible conduit
To order quote part number, e.g. AR13X3/T/BL

Approvals

KM35161

IP rating — **Appropriate conduit**

For use with: Type PA / CP / PR / PF

IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range

Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C

Fitting characteristics

Type AWB - Adaptaring

Anti-vibration washer / Materials: Acetal (POM) / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)
AWB13	13
AWB16	16
AWB21	21
AWB28	28
AWB34	34

Prevents fitting loosening under vibration

Non-metallic conduit systems

Type KF - Korifit

Type KF - Korifit

Lightweight conduit / Materials: PVCu / Colour: Grey (GR) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
KFL16	16	13	Fine	15.8	12.1	25	50
KFL20	20	17	Fine	19.8	14.5	30	50
KFL25	25	22	Fine	24.8	19.9	40	50

To order quote part number, colour & reel length, e.g. KFL16/GR/50M

Type KF - Korifit

Standard weight conduit / Materials: PVCu / Colour: White (W) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
KFS16	16	13	Fine	15.8	11.9	25	50
KFS20	20	17	Fine	19.8	14.3	30	50
KFS25	25	22	Fine	24.8	19.7	40	50

To order quote part number, colour & reel length, e.g. KFS16/GR/50M

Type KF - Korifit

Medium weight conduit / Materials: PVCu / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
KFM16	16	13	Fine	15.8	11.9	25	50
KFM20	20	17	Fine	19.8	14.3	30	50
KFM25	25	22	Fine	24.8	19.7	40	50

To order quote part number, colour & reel length, e.g. KFS16/GR/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Korifit KC & KF		Static applications: -5°C to +60°C	High
	IP40	Korifit KC	Moving applications: -5°C to +60°C	
	IP65	Korifit KC	**Flexibility & fatigue life**	
	IP66	N/A	Pliable - Low fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A		

Non-metallic conduit systems

Type KC/A & KC/C90 - Korifit

Type KC/A - Korifit

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR), White (W)

Part no.	Nominal conduit size (mm)	Metric thread
KC16/M16/A	16	M16
KC16/M20/A	16	M20
KC20/M20/A	20	M20
KC25/M25/A	20	M25

For insertion into threaded entries & knockouts. Locknut supplied
To order quote part number & body colour, e.g. KC16/M16/A/BL

Approvals	IP rating	Appropriate conduit
	For use with: Korifit Type KF	
	IP40	Yes
	IP65	N/A
	IP66	N/A
	IP67	N/A
	IP68	N/A
	IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Fitting characteristics

Type KC/C90 - Korifit

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Metric thread
KC16/M16/C90	16	M16
KC20/M20/C90	20	M20
KC25/M25/C90	25	M25

For insertion into threaded entries & knockouts. Locknut supplied
To order quote part number & body colour, e.g. KC16/M16/C90/BL

Approvals	IP rating	Appropriate conduit
	For use with: Korifit Type KF	
	IP40	Yes
	IP65	N/A
	IP66	N/A
	IP67	N/A
	IP68	N/A
	IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Non-metallic conduit systems

Type KF/A & Coupler - Korifit

Type KF/A - Korifit

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR), White (W)

Part no.	Nominal conduit size (mm)	Metric thread
KF16/M16/A	16	M16
KF16/M20/A	16	M20
KF20/M20/A	20	M20
KF25/M25/A	25	M25

For insertion into threaded entries & knockouts. Locknut supplied
To order quote part number & body colour, e.g. KF16/M16/A/BL

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Korifit Type KF	
IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Fitting characteristics

Coupler - Korifit

Straight one piece coupler / Materials: Polyamide (nylon) 66 / Colour: White (W) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)
KF2020	20	17

For coupling two corrugated flexible conduits
To order quote part number & body colour, e.g. KF2020/W

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Korifit Type KF	
IP40	N/A
IP65	Yes
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Non-metallic conduit systems

Polypropylene Type PP & PPA - Adaptalok

Polypropylene Type PP - Adaptalok

Medium weight conduit / Materials: Polypropylene / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
PPFM13	13	10	13.0	9.8	5	50
PPFM16	16	13	15.8	12.1	35	50
PPFM21	21	17	21.2	16.8	40	50
PPFM28	28	23	28.5	23.1	60	50
PPFM34	34	29	34.5	29.1	50	50

To order quote part number, colour & reel length, e.g. PPFM16/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
CE LOW VOLTAGE DIRECTIVE	**For use with:** Polypropylene Type PPA		Static applications: -20°C to +90°C	Medium
	IP40	N/A	Moving applications: -5°C to +105°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	Polypropylene Type PPA	High flexibility - Medium fatigue life	
	IP67	N/A		
	IP68	N/A		
	IP69	N/A		

Polypropylene Type PPA - Adaptalok

Straight fitting - Fixed external male thread / Materials: Polypropylene / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Metric thread
AL13/M16/PPA	13	M16
AL16/M16/PPA	16	M16
AL21/M20/PPA	21	M20
AL28/M25/PPA	28	M25
AL34/M32/PPA	34	M32

For insertion into knockouts using locknuts. Locknuts supplied
To order quote part number & body colour, e.g. AL21/M20/PPA/BL

Approvals	IP rating	Appropriate conduit	Temperature range	
KM35161 CE LOW VOLTAGE DIRECTIVE	**For use with:** Polypropylene Type PP		Static applications: -20°C to +90°C	
	IP40	N/A	Moving applications: -5°C to +105°C	
	IP65	N/A	**Fitting characteristics**	
	IP66	Yes		
	IP67	N/A		
	IP68	N/A		
	IP69	N/A		

Non-metallic conduit systems

PVC Type XF & RF - Xtraflex / RF

PVC Type XF - Xtraflex

Standard weight conduit / Materials: PVCu spiral with plasticised PVC covering / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
XF12	12	14.5	10	25	30
XF16	16	16.5	12	30	30
XF20	20	20.5	16	35	30
XF25	25	27.5	22	50	30
XF32	32	33.5	28	60	30
XF40	40	44.0	38	80	30
XF50	50	57.5	50	105	30

To order quote part number & reel length, e.g. XF16/30M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
	For use with: Type XF		Static applications: -5°C to +60°C	High
	IP40	N/A	Moving applications: -5°C to +60°C	
	IP65	Type XF	**Flexibility & fatigue life**	
	IP66	N/A	Very high flexibility - Medium fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A		

PVC Type RF - RF

Heavyweight conduit - smooth bore / Materials: PVCu spiral with plasticised PVC covering / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
RF12	12	14.5	10	25	30
RF16	16	16.5	12	30	30
RF20	20	20.5	16	35	30
RF25	25	27.5	22	50	30
RF32	32	33.5	28	60	30

To order quote part number, colour & reel length, e.g.RF16/BL/30M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
	For use with: Type RF		Static applications: -20°C to +60°C	High
	IP40	N/A	Moving applications: -5°C to +60°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	Medium flexibility - Medium fatigue life	
	IP67	Type RF	**Fire performance & EMI screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A		

Non-metallic conduit systems

PVC Type A & C90 - XF

Type A - XF

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Metric thread
XF12/M16/D	12	M16
XF16/M16/D	16	M16
XF16/M20/D	16	M20
XF20/M20/D	20	M20
XF25/M25/D	25	M25
XF32/M32/D	32	M32
XF40/M40/D	40	M40
XF50/M50/D	50	M50

For insertion into threaded entries & knockouts. Locknuts supplied with METRIC THREAD ONLY
To order quote part number, e.g. XF16/M16/D

Approvals
CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Xtraflex Type XF	
IP40	N/A
IP65	Yes
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Fitting characteristics

Type C90 - XF

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Metric thread
XF16/M16/C90	16	M16
XF20/M20/C90	20	M20
XF25/M25/C90	25	M25
XF32/M32/C90	32	M32

For insertion into knockouts. Locknuts supplied with METRIC THREAD ONLY
To order quote part number, e.g. XF16/M16/C90

Approvals
CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Xtraflex Type XF	
IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Non-metallic conduit systems

PVC Type A & C90 - RF

Type A - RF — **Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	Metric thread
RF12/M16/A	12	M16
RF16/M16/A	16	M16
RF16/M20/A	16	M20
RF20/M20/A	20	M20
RF25/M25/A	25	M25
RF32/M32/A	32	M32

For insertion into threaded entries & knockouts. Locknuts supplied with METRIC THREAD ONLY
To order quote part number, e.g. RF16/M16/C90

Approvals
CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Xtraflex Type XF	
IP40	N/A
IP65	Yes
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C
Fitting characteristics

Type C90 - RF — **90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only**

Part no.	Nominal conduit size (mm)	Metric thread
RF16/M16/C90	16	M16
RF20/M20/C90	20	M20
RF25/M25/C90	25	M25
RF32/M32/C90	32	M32

For insertion into knockouts. Locknuts supplied with METRIC THREAD ONLY
To order quote part number, e.g. RF16/M16/C90

Approvals
CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Xtraflex Type RF	
IP40	N/A
IP65	N/A
IP66	N/A
IP67	Yes
IP68	N/A
IP69	N/A

Temperature range
Static applications: -5°C to +60°C
Moving applications: -5°C to +60°C

Non-metallic conduit systems

Accessories - Type LNP, SW & AC

Type LNP

Nylon locknuts / Materials: Polyamide (nylon) 6 / Colour: Black (BL), Grey (GR)

Part no. Black	Part no. Grey	Metric thread
LNPB/M12	–	M12
LNPB/M16	LNPG/M16	M16
LNPB/M20	LNPG/M20	M20
LNPB/M25	LNPG/M25	M25
LNPB/M32	LNPG/M32	M32
LNPB/M40	LNPG/M40	M40
LNPB/M50	LNPG/M50	M50
LNPB/M63	LNPG/M63	M63

Part no. Black	Part no. Grey	PG thread
LNPB/PG7	LNPG/PG7	PG7
LNPB/PG9	LNPG/PG9	PG9
LNPB/PG11	LNPG/PG11	PG11
LNPB/PG13	LNPG/PG13	PG13
LNPB/PG16	LNPG/PG16	PG16
LNPB/PG21	LNPG/PG21	PG21
LNPB/PG29	LNPG/PG29	PG29
LNPB/PG36	LNPG/PG36	PG36
LNPB/PG42	LNPG/PG42	PG42
LNPB/PG48	LNPG/PG48	PG48

Type SW

Thread sealing washer / Colour: Black (BL), Grey (GR)

Part no.	Metric thread
SWM12*	M12
SWM16	M16
SWM20	M20
SWM25	M25
SWM32	M32
SWM40	M40
SWM50	M50
SWM63	M63

Part no.	PG thread
SWPG07	PG07
SWPG09	PG09
SWPG11	PG11
SWPG13	PG13
SWPG16	PG16
SWPG21	PG21
SWPG29	PG29
SWPG36	PG36

Part no.	NPT & PF thread
SW038	⅜”
SW050	½”
SW075	¾”
SW100	1”
SW125	1 ¼”
SW150	1 ½”
SW200	2”

TPE - For use with Nylon threaded fittings. Nylon - For use with swivel metal threaded fittings
To order quote part number & body colour, TPE Black only, e.g. SWM12,
Nylon (N) - Black (BL), Blue (B) & Yellow (Y) Metric and NPT threads only, e.g. SWM32NB
*Not available in Nylon

Type AC

Conduit clips / Materials: Polyamide (nylon) 66, Impact modified nylon - ST version only / Colour: Black (BL), Grey (GR)

Part no. Black	Part no. Grey	Impact modified (black only)	Nominal conduit size (mm)
ACB10	ACG10		10
ACB13	ACG13	ACB13/ST	13
ACB16	ACG16	ACB16/ST	16
ACB21	ACG21	ACB21/ST	21
ACB28	ACG28	ACB28/ST	28
ACB34	ACG34	ACB34/ST	34
ACB42	ACG42	ACB42/ST	42
ACB54	ACG54	ACB54/ST	54

With integral lid

Non-metallic conduit systems

Accessories - Type GZ, EC & RT

Type GZ

End sleeves / Materials: Polyamide (nylon) 66 / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)
GZ9	13
GZ11	16
GZ13	21
GZ21	28
GZ29	34
GZ36	42

For sealing cables to non-metallic conduit

Type EC

End caps / Materials: Acetal (POM) / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)
ECB13	13
ECB16	16
ECB21	21
ECB28	28
ECB34	34
ECB42	42
ECB54	54

Provides a smooth finish to conduit preventing any damage to cables when not terminated with a fitting

Type RT

Adaptalok removal tool / Materials: Polyamide (nylon) 6 / Colour: Black (BL) Only

Part no.	Adaptalok fitting size (mm)
AL13RT	13
AL16RT	16
AL21RT	21
AL28RT	28
AL34RT	34
AL42RT	42
AL54RT	54

To provide easy removal of Adaptalok & ATS Fittings
NOTE: For a 13-34mm set use part number ALRTSET

Non-metallic conduit systems

Accessories - Type MB

Type MB

Manifold box - Multiway adapters / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL) Only / Yellow (Y) Elastomer

Part no.	External dimensions lid dia. X height (mm)	External dimensions fixing lugs (mm)	Max threaded entry per face
MB21	100 x 40	120	M20
MB34	136 x 55	155	M32

Non metallic enclosure which can be machined to take upto eight Adaptalok ATS™ fittings
To order quote part number, body colour & Elastomer colour, e.g. MB21/BLY
Non metallic enclosure which can be machined to take upto eight Adaptalok ATS™ fittings (or other devices) in a variety of configurations and sizes, e.g. 'Y', 'T', 'X', 'V' etc.
Each box has a removable cover for ease of access. The box seal is moulded, so remains captive. Each manifold is provided with eight blank sides which require drilling/machining to suit the application. Manifolds can be supplied ready drilled to order, subject to minimum order quantities. Threaded fittings with locknuts can be used in each entry.

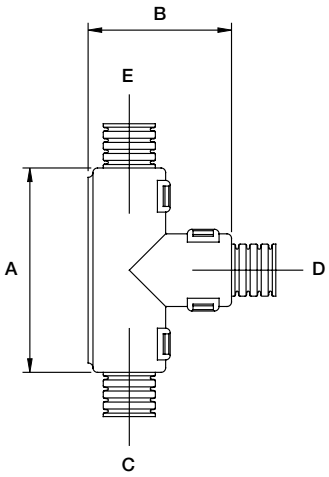
Approvals	IP rating	Appropriate conduit	Temperature range	UV resistance
CE LOW VOLTAGE DIRECTIVE	**For use with:** All threaded fittings in this catalogue		Static applications: -50°C to +120°C	Very high
	IP66	Yes	Moving applications: -45°C to +120°C	
	IP67	Yes		
	IP68	Yes (2 bar 30mins)		
	IP69	Yes		

Non-metallic conduit systems

Accessories - Type T, Hinged 'T' Piece

Type T

Hinged 'T' piece / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



		Nominal dimensions / conduit size (mm)				
	Part no.	A	B	C	D	E
10T	T101010/BL	45.2	31.1	10	10	10
	T101310/BL	45.2	31.1	10	13	10
	T101613/BL	45.2	31.1	10	16	13
13T	T131010/BL	45.2	31.1	13	10	10
	T131013/BL	45.2	31.1	13	10	13
	T131310/BL	45.2	31.1	13	13	10
	T131313/BL	45.2	31.1	13	13	13
	T131613/BL	45.2	31.1	13	16	13
16T	T161013/BL	49.1	34.8	16	10	13
	T161313/BL	49.1	34.8	16	13	13
	T161316/BL	49.1	34.8	16	13	16
	T161613/BL	49.1	34.8	16	16	13
	T161616/BL	49.1	34.8	16	16	16
	T162113/BL	49.1	34.8	16	21	13
	T162116/BL	49.1	34.8	16	21	16
21T	T211016/BL	56.5	41.0	21	10	16
	T211021/BL	56.5	41.0	21	10	21
	T211316/BL	56.5	41.0	21	13	16
	T211321/BL	56.5	41.0	21	13	21
	T211613/BL	56.5	41.0	21	16	13
	T211616/BL	56.5	41.0	21	16	16
	T211621/BL	56.5	41.0	21	16	21
	T212113/BL	56.5	41.0	21	21	13
	T212116/BL	56.5	41.0	21	21	16
	T212121/BL	56.5	41.0	21	21	21
28T	T281021/BL	64.5	48.5	28	10	21
	T281028/BL	64.5	48.6	28	10	28
	T281321/BL	64.5	48.6	28	13	21
	T281328/BL	64.5	48.6	28	13	28
	T281621/BL	64.5	48.6	28	16	21
	T281628/BL	64.5	48.6	28	16	28
	T282121/BL	64.5	48.6	28	21	21
	T282128/BL	64.5	48.6	28	21	28
	T282828/BL	64.5	48.6	28	28	28
34T	T341634/BL	72.0	55.3	34	16	34
	T342128/BL	72.0	55.3	34	21	28
	T342134/BL	72.0	55.3	34	21	34
	T343434/BL	72.0	55.3	34	34	34

Approvals

CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Type PA / PR / PF	
IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

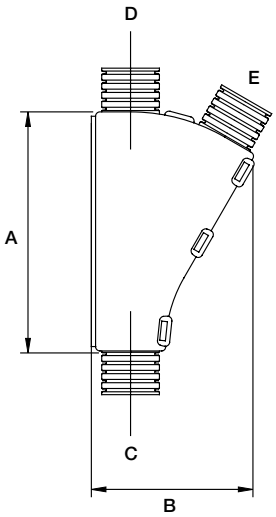
Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Fitting characteristics
Snap fit

Non-metallic conduit systems

Accessories - Type Y, hinged ‘Y’ piece

Type T

Hinged ‘T’ piece / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



	Part no.	Nominal dimensions / conduitsSize (mm) A	B	C	D	E
10Y	Y101010/BL	54.6	37.1	10	10	10
	Y101013/BL	54.6	37.1	10	10	13
	Y101210/BL	54.6	37.1	10	12	10
13Y	Y131010/BL	54.6	37.1	13	10	10
	Y131011/BL	54.6	37.1	13	10	11
	Y131310/BL	54.6	37.1	13	13	10
	Y131313/BL	54.6	37.1	13	13	13
16Y	Y161013/BL	54.9	39.8	16	10	13
	Y161310/BL	54.9	39.8	16	13	10
	Y161313/BL	54.9	39.8	16	13	13
	Y161610/BL	54.9	39.8	16	16	10
	Y161613/BL	54.9	39.8	16	16	13
21Y	Y211010/BL	42.8	41.0	21	10	10
	Y211310/BL	42.8	41.0	21	13	10
	Y211313/BL	42.8	41.0	21	13	13
	Y211610/BL	48.2	39.8	21	16	10
	Y211613/BL	48.2	39.6	21	16	13
	Y211616/BL	63.6	47.5	21	16	16
	Y212110/BL	57.9	44.9	21	21	10
	Y212113/BL	57.9	44.9	21	21	13
	Y212116/BL	63.6	47.5	21	21	16
28Y	Y282113/BL	54.0	48.8	28	21	13
	Y282116/BL	54.0	48.8	28	21	16
	Y282121/BL	76.5	60.0	28	21	21
	Y282810/BL	67.3	55.9	28	28	10
	Y282813/BL	67.3	55.9	28	28	13
	Y282816/BL	67.3	55.9	28	28	16
	Y282821/BL	76.5	60.0	28	28	21
	Y282828/BL	90.7	67.0	28	28	28
34Y	Y343416/BL	100.6	75.0	34	34	16
	Y343421/BL	100.6	76.0	34	34	21
	Y343434/BL	100.6	82.1	34	34	34

Approvals
CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Type PA / PR / PF	
IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Fitting characteristics
Snap fit

Non-metallic conduit systems

Type PK & A - Peek

Polyetherketone Type PK - Peek

High specification conduit / Materials: Polyetherketone / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
PKFS13	13	10	Fine	13.2	10.0	35	25, 50
PKFS16	16	13	Fine	16.3	11.7	45	25, 50
PKFS21	21	17	Fine	21.2	16.6	60	25, 50
PKCS28	28	23	Coarse	28.4	21.7	65	25, 50
PKCS34	34	29	Coarse	34.3	27.7	80	25, 50

To order quote part number, colour & reel length, e.g. PKFS16/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE DIN UNDERGROUND NF	**For use with:** Peek Type A		Static applications: -60°C to +260°C	Very high
	IP40	N/A	Moving applications: -45°C to +260°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	Peek Type A	Medium flexibility – Medium fatigue life	
	IP67	Peek Type A	**Fire performance & EMI screen**	SUPER LOW FIRE HAZARD SLFH
	IP68	N/A	Self extinguishing	
	IP69	N/A	Halogen free	

Type A - Peek

Straight fitting - Fixed external male thread / Materials: Nickel plated brass & silicone

Part no.	Nominal conduit size (mm)	Metric thread
PK13/M16/A	13	M16
PK16/M16/A	16	M16
PK21/M20/A	21	M20
PK28/M25/A	28	M25
PK34/M32/A	34	M32

For insertion into knockouts using a locknut

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE DIN UNDERGROUND NF	**For use with:** Peek Type PK		Static applications: -60°C to +260°C	Very high
	IP40	N/A	Moving applications: -45°C to +260°C	
	IP65	N/A	**Fire performance & EMI screen**	LOW FIRE HAZARD ILFH
	IP66	Peek Type A		
	IP67	Peek Type A		
	IP68	N/A		
	IP69	N/A		

Non-metallic conduit systems

Type PKTC & PKSS - Hi-Spec

Type PKTC - Hi-Spec

High specification, high EMI screening conduit / Materials: Polyetherketone conduit, tinned copper overbraid

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
PKFSTC13	13	10	Fine	14.1	10.0	35	25, 50
PKFSTC16	16	13	Fine	17.2	11.7	45	25, 50
PKFSTC21	21	17	Fine	23.6	16.6	60	25, 50
PKCSTC28	28	23	Coarse	30.0	21.7	65	25, 50
PKCSTC34	34	29	Coarse	36.0	27.7	80	25, 50

To order quote part number & reel length, e.g. PKFSTC13/50M

Approvals

KM35161 · CE LOW VOLTAGE DIRECTIVE · DIN · UNDERGROUND · NF

IP rating	Appropriate fitting
For use with: Hi-Spec Type A & B	
IP40	N/A
IP65	N/A
IP66	Hi-Spec Type A & B
IP67	Hi-Spec Type A & B
IP68	N/A
IP69	N/A

Temperature range
Static applications: -60°C to +260°C
Moving applications: -45°C to +260°C
Flexibility & fatigue life
High flexibility – High fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance

Very high

SUPER LOW FIRE HAZARD · SLFH · SUPER LOW FIRE HAZARD

EMI SCREEN · HIGH · EMI SCREEN

Type PKSS - Hi-Spec

High specification, standard EMI screening conduit / Materials: Polyetherketone conduit, stainless steel overbraid

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
PKFSSS13	13	10	Fine	14.1	10.0	35	25, 50
PKFSSS16	16	13	Fine	17.2	11.7	45	25, 50
PKFSSS21	21	17	Fine	23.6	16.6	60	25, 50
PKCSSS28	28	23	Coarse	30.0	21.7	65	25, 50
PKCSSS34	34	29	Coarse	36.0	27.7	80	25, 50

To order quote part number, colour & reel length, e.g. PKFS16/BL/50M

Approvals

KM35161 · CE LOW VOLTAGE DIRECTIVE · DIN · UNDERGROUND · NF

IP rating	Appropriate fitting
For use with: Hi-Spec Type A & B	
IP40	N/A
IP65	N/A
IP66	Hi-Spec Type A & B
IP67	Hi-Spec Type A & B
IP68	N/A
IP69	N/A

Temperature range
Static applications: -60°C to +260°C
Moving applications: -45°C to +260°C
Flexibility & fatigue life
High flexibility – High fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance

Very high

SUPER LOW FIRE HAZARD · SLFH · SUPER LOW FIRE HAZARD

EMI SCREEN · STANDARD · EMI SCREEN

Non-metallic conduit systems

Type PKTC & PKSS - Hi-Spec

Type PKTC - Hi-Spec

High specification, high EMI screening conduit / Materials: Polyetherketone conduit, tinned copper overbraid

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
PRFSTC16	16	13	Fine	17.2	11.7	35	50
PRFSTC21	21	17	Fine	23.6	16.6	60	50
PRCSTC28	28	23	Coarse	30.0	21.7	70	50
PRCSTC34	34	29	Coarse	36.0	27.7	75	50
PRCSTC42	42	36	Coarse	43.5	35.1	90	25
PRCSTC54	54	48	Coarse	56.5	46.6	95	25

To order quote part number, colour & reel length, e.g. PAFL13/BL/50M

Approvals

KM35161 · DIN · NF

IP rating	Appropriate fitting
For use with: Hi-Spec Type A & B	
IP40	N/A
IP65	N/A
IP66	Hi-Spec Type A & B
IP67	Hi-Spec Type A & B
IP68	N/A
IP69	N/A

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Flexibility & fatigue life
High flexibility – Medium fatigue life
Fire performance & EMI screen
Self extinguishing

UV resistance

Very high

ENHANCED LOW FIRE HAZARD ELFH · EMI SCREEN HIGH EMI SCREEN

Type PKSS - Hi-Spec

High specification, standard EMI screening conduit / Materials: Polyetherketone conduit, stainless steel overbraid

Part no.	Nominal conduit size (mm)	NW conduit size (mm)	Conduit pitch	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
PRFSSS16	16	13	Fine	17.2	11.7	35	50
PRFSSS21	21	17	Fine	23.6	16.6	60	50
PRCSSS28	28	23	Coarse	30.0	21.7	70	50
PRCSSS34	34	29	Coarse	36.0	27.7	75	50
PRCSSS42	42	36	Coarse	43.5	35.1	90	25
PRCSSS54	54	48	Coarse	56.5	46.6	95	25

To order quote part number, colour & reel length, e.g. PRFSTC21/50M

Approvals

KM35161 · DIN · NF

IP rating	Appropriate fitting
For use with: Hi-Spec Type A & B	
IP40	N/A
IP65	N/A
IP66	Hi-Spec Type A & B
IP67	Hi-Spec Type A & B
IP68	N/A
IP69	N/A

Temperature range
Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C
Flexibility & fatigue life
High flexibility – Medium fatigue life
Fire performance & EMI screen
Self extinguishing

UV resistance

Very high

ENHANCED LOW FIRE HAZARD ELFH · EMI SCREEN STANDARD EMI SCREEN

Non-metallic conduit systems

Type A & B - Hi-Spec

Type A - Hi-Spec

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
PBF13/M16/A	13	M16
PBF16/M16/A	16	M16
PBF21/M20/A	21	M20
PBC28/M25/A	28	M25
PBC34/M32/A	34	M32
PBC42/M40/A	42	M40

For insertion into knockouts using a locknut

Approvals

KM35161

NF

IP rating	Appropriate fitting
For use with: Hi-Spec Type PKTC / PKSS / PRTC / PRSS	
IP40	N/A
IP65	N/A
IP66	Yes
IP67	Yes
IP68	N/A
IP69	N/A

Temperature range
Static applications: -60°C to +260°C
Moving applications: -45°C to +260°C

Fire performance & EMI screen

INHERENT LOW FIRE HAZARD ILFH

Type B - Hi-Spec

Straight fitting - Swivel external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
PBF13/M16/B	13	M16
PBF16/M16/B	16	M16
PBF21/M20/B	21	M20
PBC28/M25/B	28	M25
PBC34/M32/B	34	M32
PBC42/M40/B	42	M40
PBC54/M50/B	54	M50

For insertion into threaded entries & knockouts

Approvals

KM35161

NF

IP rating	Appropriate fitting
For use with: Hi-Spec Type PKTC / PKSS / PRTC / PRSS	
IP40	N/A
IP65	N/A
IP66	Yes
IP67	Yes
IP68	N/A
IP69	N/A

Temperature range
Static applications: -60°C to +260°C
Moving applications: -45°C to +260°C

Fire performance & EMI screen

INHERENT LOW FIRE HAZARD ILFH

2L/78

Metallic conduit systems

Quick selection guide

Product selection guide

Conduit type	Type S	Type SS	Type SP	Type SN	Type LFH-SP	Type SPL	Type LFH-SPL	Type SPL-EF
Part number	**S**	**SS**	**SP**	**SN**	**LFH-SP**	**SPL**	**LFH-SPL**	**SPL-EF NEW**
Conduit material	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel
Covering/overbraid	-	-	PVC	PA (nylon)	Polyolefin	PVC	Low fire hazard jacket	Thermoplastic jacket
Conduit colour								
Black (BL)	-	-	■	■	■	■	■	■
Grey (GR)	-	-	■	-	-	■	-	-
IP rating (with appropriate fitting)								
IP40	■	■	-	-	-	-	-	-
IP54	-	-	■	■	■	-	-	-
P65	-	-	■	■	■	-	-	-
P66	-	-	-	-	-	■	■	■
P67	-	-	-	-	-	■	■	■
P68	-	-	-	-	-	■	■	■
P69	-	-	-	-	-	■	■	■

Characteristics

Temperature range								
Static applications (°C)	-50 to +300	-50 to +350	-25 to +70	-25 to +90	-25 to +90	-20 to +105	-20 to +90	-40 to +105
Moving applications (°C)	-45 to +250	-45 to +250	-5 to +90	-5 to +105	-5 to +105	-5 to +105	-5 to +105	-30 to +105
UV resistance	Very high	Very high	Very high	High	High	Very high	High	Very high
Flexibility	High	High	High	Medium	High	Medium	Medium	Very high
Fatigue life	High	High	Medium	Medium	Medium	Medium	Medium	High
Low fire hazard	Inherent	Inherent	-	-	Enhanced	-	Enhanced	Enhanced
Halogen free	■	■	-	■	■	-	■	■
Self extinguishing	-	-	■	■	■	■	■	■
EMI screen	-	-	-	-	-	-	-	-
High mechanical strength	■	■	■	■	■	■	■	■
High abrasion resistance	-	-	-	-	-	-	-	-
Approvals								
BSI Kitemark	■	■	■	■	■	■	■	■
CE	■	■	■	■	■	■	■	■
UL / CSA	-	-	-	-	-	-	-	-
UR	-	-	-	-	-	■	-	-
DIN 5510-2	-	-	-	-	-	-	-	-
NF F	-	-	-	-	■	-	■	-
LUL 1-085	-	-	-	-	■	-	■	-
UNI CEI 11170	-	-	-	-	-	-	-	-
EN45545-2 to HL3	-	-	-	-	-	-	■	■
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	Type SPLHC	Type SPUL	Type SB	Type STC	Type SSB	Type SSBGS	Type SPB	Type SPTC	Type LFH-SPSS	Type SPLHCB
	SPLHC	**SPUL**	**SB**	**STC**	**SSB**	**SSBGS**	**SPB**	**SPTC**	**LFH-SPSS**	**SPLHCB**
	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel
	Thermoplastic rubber	PVC	Galvanised steel	Tinned copper	Stainless steel	Stainless steel	PVC & galvanised steel	PVC & tinned copper	Stainless steel low fire hazard jacket	Thermoplastic rubber & stainless steel
	■	-	-	-	-	-	-	-	-	-
	-	■	-	-	-	-	-	-	-	-
	-	-	■	■	■	■	-	-	-	-
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	-65 to +135	-20 to +75	-50 to +300	-50 to +300	-50 to +300	-50 to +300	-15 to +70	-15 to +70	-20 to +90	-65 to +135
	-45 to +150	-5 to +105	-45 to +250	-45 to +250	-45 to +250	-45 to +250	-5 to +90	-5 to +90	-5 to +105	-45 to +150
	Very high	High	Very high	Very high	Very high	Very high	Very high	Very high	Very high	Very high
	Very high	Medium	High	High	High	High	High	High	Medium	High
	High	Medium	High	High	High	High	Medium	Medium	Medium	Medium
	-	-	Inherent	Inherent	Inherent	Inherent	-	-	Enhanced	-
	■	-	■	■	■	■	-	-	-	■
	■	■	-	-	-	-	■	■	■	■
	-	-	Enhanced	High	Standard	Standard	Enhanced	High	Standard	Standard
	■	■	■	■	■	■	■	■	■	■
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Metallic conduit systems
Introduction

Range overview - Adaptaflex have a wide selection of metallic conduits and metallic conduit systems manufactured either in galvanized steel or stainless steel.

A wide range of different conduit types provide a solution for liquid resistant specifications, with further conduit options in liquid tight covered steel conduit for especially demanding environments. Conduit ranges are offered in nominal conduit size from 3mm for CCTV/roller shutter doors and for protecting fibre optics cables right up to 75mm for larger cable carrying capacity.

Overbraided conduits are particularly suitable for installation in abrasive environments. Where applications call for enhanced low fire hazard properties or EMI screening then there is the option of high specification tinned copper overbraided for greater EMI protection levels.

In addition a range of fittings are specifically designed to maintain system integrity including fixed and swivel fittings, straights, 90°, 45°, and a host of accessories including locknuts, enlargers, reducers and converters.

Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval & UL amongst others.

Advantages:
- High compression/crush strength
- Tensile strength - pull off load under tension
- Impact resistance
- Inherent fire protection on uncoated versions
- Corrosion resistant - stainless steel options
- Braided - High level EMI screening with tinned copper overbraided
- Greater temperature tolerances

Metallic conduit systems

Type S & SS - Adaptasteel

Type S - Adaptasteel

Inherent low Fife hazard steel conduit / Materials: Galvanised steel - general purpose

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
S10	10	9.1	7.0	25	25, 50
S12	12	13.0	10.3	30	10, 25, 50
S16	16	16.0	13.0	35	10, 25, 50
S20	20	20.5	16.9	45	10, 25, 50
S25	25	25.0	21.4	55	10, 25, 50
S32	32	32.0	28.1	60	10, 25
S40	40	42.5	37.7	80	10, 25
S50	50	53.0	48.4	90	10, 25
S63	63	62.5	57.5	115	10
S75	75	77.0	70.0	150	10

To order quote part no, & reel length, e.g. S12/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE	**For use with:** Type S		Static applications: -50°C to +300°C	Very high
	IP40	Type S - Type A, B, F & C	Moving applications: -45°C to +250°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility - High fatigue life	
	IP67	N/A	**Fire Performance & EMI Screen**	
	IP68	N/A		
	IP69	N/A		

Type S - Adaptasteel

Inherent low fire hazard steel conduit / Materials: Galvanised steel - general purpose

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SS10	10	9.0	6.8	25	25, 50
SS12	12	13.0	10.3	30	25, 50
SS16	16	16.0	13	35	10, 25, 50
SS20	20	20.5	16.9	45	10, 25, 50
SS25	25	25.0	21.4	55	10, 25, 50
SS32	32	32.0	28.1	60	10, 25

To order quote part no, & reel length, e.g. S12/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE	**For use with:** Type S		Static applications: -50°C to +350°C	Very high
	IP40	Type S - Type A, B, F & C	Moving applications: -45°C to +250°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility - High fatigue life	
	IP67	N/A	**Fire Performance & EMI Screen**	
	IP68	N/A		
	IP69	N/A		

Metallic conduit systems

Type A & B - Adaptasteel

Type A - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
S10/M12/A	10	M12	S10/PG7/A	10	PG7
S12/M16/A	12	M16	S12/PG9/A	12	PG9
S16/M16/A	16	M16	S16/PG11/A	16	PG11
S16/M20/A	16	M20	-	-	-
S20/M20/A	20	M20	S20/PG16/A	20	PG16
S25/M25/A	25	M25	S25/PG21/A	25	PG21
S32/M32/A	32	M32	S32/PG29/A	32	PG29
S40/M40/A	40	M40	S40/PG36/A	40	PG36
S50/M50/A	50	M50	S50/PG42/A	50	PG42
S63/M63/A	63	M63	S63/PG48/A	63	PG48
S75/M75/A	75	M75			

For insertion into knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type S / SS		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Type B - Adaptasteel

Straight fitting - Swivel external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
S10/M12/B	10	M12	S10/PG7/B	10	PG7
S12/M16/B	12	M16	S12/PG9/B	12	PG9
S16/M16/B	16	M16	S16/PG11/B	16	PG11
S16/M20/B	16	M20	-	-	-
S20/M20/B	20	M20	S20/PG16/B	20	PG16
S25/M25/B	25	M25	S25/PG21/B	25	PG21
S32/M32/B	32	M32	S32/PG29/B	32	PG29
S40/M40/B	40	M40	S40/PG36/B	40	PG36
S50/M50/B	50	M50	S50/PG42/B	50	PG42

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type S / SS		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	**Fitting characteristics**
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Metallic conduit systems

Type F & C - Adaptasteel

Type F - Adaptasteel

Straight fitting - Fixed internal female thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
S20/M20/F	20	M20
S25/M25/F	25	M25
S32/M32/F	32	M32

For attaching to external threads & other fitting

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type S / SS		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Type C - Adaptasteel

Smooth entry bush / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Hole size (mm)
S10/9/C	10	9
S12/12/C	12	12
S16/16/C	16	16
S20/20/C	20	20
S25/25/C	25	25
S32/32/C	32	32
S40/40/C	40	40
S50/51/C	50	51
S63/61/C	63	61
S75/75/C	75	75

For locking conduit into plain holes in enclosures

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type S / SS		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Metallic conduit systems

Type SP & SN - Adaptasteel

Type SP - Adaptasteel

Liquid resistant general purpose covered steel flexible conduit / Materials: PVC covered galvanised steel / Colour: Black (BL), Grey (GR), Orange (OR)

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SP10	10	10.0	6.8	25	25, 50
SP12	12	14.0	10.3	30	25, 50
SP16	16	17.0	13.0	35	10, 25, 50
SP20	20	21.5	16.9	45	10, 25, 50
SP25	25	26.0	21.4	55	10, 25, 50
SP32	32	34.0	28.1	60	10, 25
SP40	40	44.5	37.7	80	10, 25
SP50	50	55.0	48.4	90	10, 25
SP63	63	64.5	57.5	115	10
SP75	75	79.0	70.0	150	10

To order quote part no, colour & reel length, e.g. SP12/BL/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SP		Static applications: -25°C to +70°C	Very high
	IP54	Type SP - Type A, B, C, E & F	Moving applications: -5°C to +90°C	
	IP65	Type SP - Type M & C90	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility - Medium fatigue life	
	IP67	N/A	**Fire Performance & EMI Screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A		

Type SP - Adaptasteel

Liquid resistant general purpose covered steel flexible conduit / Materials: PVC covered galvanised steel / Colour: Black (BL), Grey (GR), Orange (OR)

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SN12	12	14.0	10.3	30	25, 50
SN16	16	17.0	13.0	35	25, 50
SN20	20	21.5	16.9	45	25, 50
SN25	25	26.0	21.4	55	25, 50
SN32	32	34.0	28.1	60	25

To order quote part no, colour & reel length, e.g. SP12/BL/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SP		Static applications: -40°C to +120°C	High
	IP54	Type SP - Type A, B, C, E & F	Moving applications: -25°C to +150°C	
	IP65	Type SP - Type M & C90	**Flexibility & fatigue life**	
	IP66	N/A	Medium flexibility - Medium fatigue life	
	IP67	N/A	**Fire Performance & EMI Screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A	Halogen free	

Metallic conduit systems

Type LFH-SP & A - Adaptasteel

Type LFH-SP - Adaptasteel

Liquid resistant enhanced low fire hazard covered steel flexible conduit / Materials: Polyolefin covered galvanised steel / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
LFH-SP12	12	14.0	10.3	30	25, 50
LFH-SP16	16	17.0	13.0	35	10, 25, 50
LFH-SP20	20	21.5	16.9	45	10, 25, 50
LFH-SP25	25	26.0	21.4	55	10, 25, 50
LFH-SP32	32	34.0	28.1	60	10, 25
LFH-SP40	40	44.5	37.7	80	10, 25
LFH-SP50	50	55.0	48.4	90	10, 25
LFH-SP63	63	64.5	57.5	115	10
LFH-SP75	75	79.0	70.0	150	10

To order quote part no, colour & reel length, e.g. SP12/BL/25M

Approvals

EN45545-2 HL3 - R22 & R23

IP rating	Appropriate fitting
For use with: Type SP	
IP54	Type SP - Type A, B, C, E & F
IP65	Type SP - Type M & C90
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -25°C to +90°C
Moving applications: -5°C to +105°C
Flexibility & fatigue life
High flexibility - Medium fatigue life
Fire Performance & EMI Screen
Self extinguishing
Halogen Free

UV resistance

High

Type A - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
SP10/M12/A	10	M12	SP10/PG7/A	10	PG7
SP12/M16/A	12	M16	SP12/PG9/A	12	PG9
SP16/M16/A	16	M16	-	-	-
SP16/M20/A	16	M20	SP16/PG11/A	16	PG11
SP20/M20/A	20	M20	SP20/PG16/A	20	PG16
SP25/M25/A	25	M25	SP25/PG21/A	25	PG21
SP32/M32/A	32	M32	SP32/PG29/A	32	PG29
SP40/M40/A	40	M40	SP40/PG36/A	40	PG36
SP50/M50/A	50	M50	SP50/PG42/A	50	PG42
SP63/M63/A	63	M63	SP63/PG48/A	63	PG48
SP75/M75/A	75	M75			

For insertion into knockouts using a locknut (order locknut separately)

Approvals

IP rating	Appropriate conduit
For use with: Type SP / SN / LFH-SP	
IP54	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -50°C to +300°C
Moving applications: -45°C to +250°C

Metallic conduit systems

Type B & C90 - Adaptasteel

Type B - Adaptasteel

Straight fitting - Swivel external thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
SP10/M12/B	10	M12	SP10/PG7/B	10	PG7
SP12/M16/B	12	M16	SP12/PG9/B	12	PG9
SP16/M16/B	16	M16	SP16/PG11/B	16	PG11
SP16/M20/B	16	M20	-	-	-
SP20/M20/B	20	M20	SP20/PG16/B	20	PG16
SP25/M25/B	25	M25	SP25/PG21/B	25	PG21
SP32/M32/B	32	M32	SP32/PG29/B	32	PG29
SP40/M40/B	40	M40	SP40/PG36/B	40	PG36
SP50/M50/B	50	M50	SP50/PG42/B	50	PG42

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SP / SN / LFH-SP		Static applications: -50°C to +300°C
	IP54	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	**Fitting characteristics**
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Type C90 - Adaptasteel

90° Combined fitting & elbow / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SP16/M16/C90	16	M16
SP16/M20/C90	16	M20
SP20/M20/C90	20	M20
SP25/M25/C90	25	M25
SP32/M32/C90	32	M32

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type S / SS		Static applications: -50°C to +300°C
	IP54	N/A	Moving applications: -45°C to +250°C
	IP65	Yes	**Fitting characteristics**
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Metallic conduit systems

Type M & F - Adaptasteel

Type M - Adaptasteel

Straight swivel fitting - External male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SP12/M16/M	12	M16
SP16/M16/M	16	M16
SP16/M20/M	16	M20
SP20/M20/M	20	M20
SP25/M25/M	25	M25
SP32/M32/M	32	M32
SP40/M40/M	40	M40
SP50/M50/M	50	M50

Part no.	Nominal conduit size (mm)	PG thread
SP12/PG9/M	12	PG9
SP16/PG11/M	16	PG11
SP16/PG13/M	16	PG13,5
SP20/PG16/M	20	PG16
SP25/PG21/M	25	PG21
SP32/PG29/M	32	PG29

Part no.	Nominal conduit size (mm)	NPT thread
SP16/038/M	16	⅜"
SP20/050/M	20	½"
SP25/075/M	25	¾"
SP32/100/M	32	1"

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals
KM35161 CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Type SP / SN / LFH-SP	
IP54	N/A
IP65	Yes
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -50°C to +300°C
Moving applications: -45°C to +250°C
Fitting characteristics

Type F - Adaptasteel

Straight fitting - Fixed internal female thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SP20/M20/F	20	M20
SP25/M25/F	25	M25
SP32/M32/F	32	M32

For external threads and other fittings

Approvals
KM35161 CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Type SP / SN / LFH-SP	
IP54	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -50°C to +300°C
Moving applications: -45°C to +250°C

Metallic conduit systems

Type C & E - Adaptasteel

Type C - Adaptasteel

Smooth entry bush / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Hole size (mm)
SP10/9/C	10	9
SP12/12/C	12	12
SP16/16/C	16	16
SP20/20/C	20	20
SP25/25/C	25	25
SP32/32/C	32	32
SP40/40/C	40	40
SP50/51/C	50	51
SP63/61/C	63	61
SP75/75/C	75	75

For locking conduit into plain holes in enclosures

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SP / SN / LFH-SP		Static applications: -50°C to +300°C
	IP54	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Type E - Adaptasteel

Conduit terminator / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)
SP12/E	12
SP16/E	16
SP20/E	20
SP25/E	25
SP32/E	32
SP40/E	40
SP50/E	50

Cable Protection at exit point

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SP / SN / LFH-SP		Static applications: -50°C to +300°C
	IP54	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Metallic conduit systems

Type SPL & LFH-SPL - Adaptasteel

Type SPL - Adaptasteel

Liquid tight oil resistant covered steel flexible conduit / Materials: PVC covered galvanised steel / Colour: Black (BL), Grey (GR), Orange (OR)

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPL10	10	11.8	¼"	7.0	40	10, 25, 50
SPL12	12	14.2	5⁄16"	10.0	45	10, 25, 50
SPL16	16	17.8	⅜"	12.5	50	10, 25, 50
SPL20	20	21.1	½"	15.9	80	10, 25, 50
SPL25	25	26.4	¾"	21.0	110	10, 25, 50
SPL32	32	33.1	1"	26.7	145	10, 25
SPL40	40	41.8	1 ¼"	35.4	180	10, 25
SPL50	50	47.9	1 ½"	40.4	240	10, 25
SPL63	63	59.7	2"	51.6	345	10, 25

To order quote part number, colour & reel length, e.g. SPL12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SPL		Static applications: -20°C to +105°C	Very high
	IP40	N/A	Moving applications: -5°C to +105°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	Type SPL - Type M, C45 & C90	Medium flexibility – Medium fatigue life	
	IP67	Type SPL - Type A, B, M, C45 & C90	**Fire performance & EMI screen**	
	IP68	Type SPL - Type M, C45 & C90 (10 bar 30 mins)	Self extinguishing	
	IP69	Type SPL - Type M, C45 & C90		

Type LFH-SPL - Adaptasteel

Low fire hazard performance covered steel flexible conduit / Materials: Low fire hazard jacket covered galvanised steel / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
LFH-SPL16	16	17.0	⅜"	13.0	50	10, 25
LFH-SPL20	20	21.5	½"	16.9	80	10, 25
LFH-SPL25	25	26.0	¾"	21.4	110	10, 25
LFH-SPL32	32	34.0	1"	28.1	145	10, 25
LFH-SPL40	40	44.5	1 ¼"	37.7	180	10
LFH-SPL50	50	55.0	1 ½"	48.4	240	10
LFH-SPL63	63	64.5	2"	57.5	345	10

To order quote part number, colour & reel length, e.g. SPL12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SPL		Static applications: -20°C to +90°C	High
	IP40	N/A	Moving applications: -5°C to +105°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	Type SPL - Type M, C45 & C90	Medium flexibility – Medium fatigue life	
	IP67	Type SPL - Type A, B, M, C45 & C90	**Fire performance & EMI screen**	
	IP68	Type SPL - Type M, C45 & C90 (10 bar 30 mins)	Self extinguishing Halogen free	
EN45545-2 HL3 - R22 & R23	**IP69**	Type SPL - Type M, C45 & C90		

Metallic conduit systems

Type SPL-EF - Adaptasteel

The NEW SPL-EF conduit systems are Enhanced Fire Performance rated, highly flexible, liquid tight with a wide temperature operating range. Designed to meet the demand for 'interoperability' and compliance with stringent local and European fire safety requirements in the rail infrastructure market, the SPL-EF system, is accredited with the EN45545-2 standard achieving the highest HL3 fire performance rating for both interior and exterior locations.

The system provides higher performance levels of flexibility, impact and abrasion resistance, combined with enhanced chemical resistances especially to oils and greases, with a much higher and lower temperature rating (-40°C to +105°C), than any other metallic conduit system with a EN45545-2 HL3 rating.

Advantages include:

- EN45545-2 and BS EN 61386-1 & 23 accreditation
- HL3 - R22 & R23 rating
- Up to IP69 rating
- High flexibility
- Oil and hydrocarbons resistant
- Suitable for wide use underground and in any part of train vehicles and infrastructure

Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval, UL 1696, NF, LUL, DB, Lloyds Register amongst others.

Type SPL-EF - Adaptasteel NEW

Enhanced fire performance covered steel flexible conduit / Materials: Thermoplastic jacket covered galvanised steel / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPL-EF12	12	14.2	5/16"	10.0	45	10, 25, 50
SPL-EF16	16	17.8	3/8"	12.5	50	10, 25, 50
SPL-EF20	20	21.1	1/2"	15.9	80	10, 25, 50
SPL-EF25	25	26.4	3/4"	21.0	110	10, 25, 50
SPL-EF32	32	33.1	1"	26.7	145	10, 25, 50
SPL-EF40	40	41.8	1 1/4"	35.4	180	10, 25
SPL-EF50	50	47.9	1 1/2"	40.4	240	10, 25

To order quote part number, colour & reel length, e.g. SPL-EF12/BL/50M

Approvals

KM35161

EN45545-2 HL3 - R22 & R23

IP rating	Appropriate fitting
For use with: Type SPL	
IP40	N/A
IP65	N/A
IP66	Type SPL - Type M, C45 & C90
IP67	Type SPL - Type A, B, M, C45 & C90
IP68	Type SPL - Type M, C45 & C90 (10 bar 30 mins)
IP69	Type SPL - Type M, C45 & C90

Temperature range
Static applications: -40°C to +105°C
Moving applications: -30°C to +105°C
Flexibility & fatigue life
Very high flexibility – High fatigue life
Fire performance & EMI screen
Self extinguishing
Halogen free

UV resistance

Very high

Metallic conduit systems

Type SPLHC & SPUL - Adaptasteel

Type SPLHC - Adaptasteel

Liquid tight extreme temperature covered steel flexible conduit / Materials: Thermoplastic rubber covered galvanised steel / Colour: Black (BL) Only

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPLHC10	10	11.8	¼"	7.0	40	25, 50
SPLHC12	12	14.2	5⁄16"	10.0	40	25, 50
SPLHC16	16	17.8	⅜"	12.5	50	25
SPLHC20	20	21.1	½"	15.9	80	25
SPLHC25	25	26.4	¾"	21.0	110	25
SPLHC32	32	33.1	1"	26.7	145	25
SPLHC40	40	41.8	1 ¼"	35.4	180	25
SPLHC50	50	47.9	1 ½"	40.4	240	25
SPLHC63	63	59.7	2"	51.6	345	25

To order quote part number, colour & reel length, e.g. SPLHC12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SPL		Static applications: -65°C to +135°C	Very high
	IP40	N/A	Moving applications: -45°C to +150°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	Type SPL - Type M, C45 & C90	Very high flexibility – High fatigue life	
	IP67	Type SPL - Type A, B, M, C45 & C90	**Fire performance & EMI screen**	
	IP68	Type SPL - Type M, C45 & C90 (10 bar 30 mins)	Self extinguishing Halogen free	
	IP69	Type SPL - Type M, C45 & C90		

Type SPUL - Adaptasteel

Liquid tight UL listed & CSA approved covered steel flexible conduit / Materials: PVC covered galvanised steel with copper packing / Colour: Black (BL), Grey (GR)

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPUL16	16	17.8	⅜"	12.5	50	25, 50
SPUL20	20	21.1	½"	15.9	80	50
SPUL25	25	26.4	¾"	21.0	110	25, 50
SPUL32	32	33.1	1"	26.7	145	25
SPUL40	40	41.8	1 ¼"	35.4	180	25
SPUL50	50	47.9	1 ½"	40.4	240	25
SPUL63	63	59.7	2"	51.6	345	10, 25

To order quote part number, colour & reel length, e.g. SPL12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
File No. E76358	**For use with:** Type SPL		Static applications: -20°C to +90°C	High
	IP40	N/A	Moving applications: -5°C to +105°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	Type SPL - Type M, C45 & C90	Medium flexibility – Medium fatigue life	
	IP67	Type SPL - Type A, B, M, C45 & C90	**Fire performance & EMI screen**	
	IP68	Type SPL - Type M, C45 & C90 (10 bar 30 mins)	Self extinguishing	
	IP69	Type SPL - Type M, C45 & C90		

Metallic conduit systems

Type A & B - Adaptasteel

Type A - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	US conduit size (in)	Metric thread
SPL16/M16/A	16	⅜"	M16
SPL16/M20/A	16	⅜"	M20
SPL20/M20/A	20	½"	M20
SPL25/M25/A	25	¾"	M25
SPL32/M32/A	32	1"	M32

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals
KM35161 CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL	
IP40	N/A
IP65	N/A
IP66	N/A
IP67	Yes
IP68	N/A
IP69	N/A

Temperature range
Static applications: -65°C to +105°C
Moving applications: -45°C to +150°C

Type B - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	US conduit size (in)	Metric thread
SPL16/M16/B	16	⅜"	M16
SPL16/M20/B	16	⅜"	M20
SPL20/M20/B	20	½"	M20
SPL25/M25/B	25	¾"	M25
SPL32/M32/B	32	1"	M32

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals
KM35161 CE LOW VOLTAGE DIRECTIVE

IP rating	Appropriate conduit
For use with: Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL	
IP40	N/A
IP65	N/A
IP66	N/A
IP67	Yes
IP68	N/A
IP69	N/A

Temperature range
Static applications: -65°C to +105°C
Moving applications: -45°C to +150°C

Fitting characteristics

Metallic conduit systems

Type E & M - Adaptasteel

Type E - Adaptasteel

Conduit terminator / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	US conduit size (in)
SPL10/E	10	¼”
SPL12/E	12	5/16”
SPL16/E	16	⅜”
SPL20/E	20	½”
SPL25/E	25	¾”
SPL32/E	32	1”
SPL40/E	40	1 ¼”
SPL50/E	50	1 ½”
SPL63/E	63	2”

Cable protection at exit point

Approvals
KM35161 CE

IP rating	Appropriate conduit
For use with: Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL	
IP54	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range
Static applications: -65°C to +300°C
Moving applications: -45°C to +250°C

Type M - Adaptasteel

Coupler / Materials: Nickel plated brass, co-polyester seals

Part no.	Nominal conduit size (mm)	US conduit size (in)	Bore (mm)
SPL16/U/M	16	3/8”	10.3
SPL20/U/M	20	1/2”	14.3
SPL25/U/M	25	3/4”	17.6
SPL32/U/M	32	1“	24.0
SPL40/U/M	40	1 1/4”	33.0
SPL50/U/M	50	1 1/2”	38.5
SPL63/U/M	63	2”	50.0

For coupling separate lengths of liquid tight conduit

Approvals
KM35161 CE

IP rating	Appropriate conduit
For use with: Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL	
IP54	N/A
IP65	N/A
IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

Temperature range
Static applications: -65°C to +150°C
Moving applications: -45°C to +150°C

Fitting characteristics

Metallic conduit systems

Type M - Adaptasteel

Type M - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	US conduit size (in)	Metric thread
SPL10/M12/M	10	¼”	M12
SPL10/M16/M	10	¼”	M16
SPL12/M16/M	12	5/16”	M16
SPL16/M16/M	16	⅜”	M16
SPL16/M20/M	16	⅜”	M20
SPL20/M20/M	20	½”	M20
SPL25/M25/M	25	¾”	M25
SPL32/M32/M	32	1”	M32
SPL40/M40/M	40	1 ¼”	M40
SPL50/M50/M	50	1 ½”	M50
SPL63/M63/M	63	2”	M63

Part no.	Nominal conduit size (mm)	US conduit size (in)	PG thread
SPL10/PG7/M	10	¼”	PG7
SPL12/PG9/M	12	5/16”	PG9
SPL16/PG11/M	16	⅜”	PG11
SPL16/PG13/M	16	⅜”	PG13,5
SPL20/PG16/M	20	½”	PG16
SPL25/PG21/M	25	¾”	PG21
SPL32/PG29/M	32	1”	PG29
SPL40/PG36/M	40	1 ¼”	PG36
SPL50/PG42/M	50	1 ½”	PG42
SPL63/PG48/M	63	2”	PG48

Part no.	Nominal conduit size (mm)	US conduit size (in)	NPT thread
SPL16/038/M	16	⅜”	⅜”
SPL20/050/M	20	½”	½”
SPL25/075/M	25	¾”	¾”
SPL32/100/M	32	1”	1”
SPL40/125/M	40	1 ¼”	1 ¼”
SPL50/150/M	50	1 ½”	1 ½”
SPL63/200/M	63	2”	2”

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals

UL514B
File No. E60625

IP rating	Appropriate conduit
For use with: Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL	
IP54	N/A
IP65	N/A
IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

Temperature range
Static applications: -65°C to +150°C
Moving applications: -45°C to +150°C

Fitting characteristics

Metallic conduit systems

Type C90 & 45 - Adaptasteel

Type C90 - Adaptasteel

90° Combined fitting & elbow - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	US conduit size (in)	Metric thread	Part no.	Nominal conduit size (mm)	US conduit size (in)	NPT thread
SPL16/M16/C90	16	⅜"	M16	SPL16/038/C90	16	⅜"	⅜"
SPL16/M20/C90	16	⅜"	M20	SPL16/050/C90	16	⅜"	⅜"
SPL20/M20/C90	20	½"	M20	SPL20/050/C90	20	½"	½"
SPL25/M25/C90	25	¾"	M25	SPL25/075/C90	25	¾"	¾"
SPL32/M32/C90	32	1"	M32	SPL32/100/C90	32	1"	1"
SPL40/M40/C90	40	1 ¼"	M40	SPL40/125/C90	40	1 ¼"	1 ¼"
SPL50/M50/C90	50	1 ½"	M50	SPL50/150/C90	50	1 ½"	1 ½"
SPL63/M63/C90	63	2"	M63	SPL63/200/C90	63	2"	2"

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL		Static applications: -65°C to +150°C
UL514B File No. E60625	**IP54**	N/A	Moving applications: -45°C to +150°C
	IP65	N/A	
	IP66	Yes	
	IP67	Yes	
	IP68	Yes (10 bar 30 mins)	
	IP69	Yes	

Type 45 - Adaptasteel

45° Elbow - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	US conduit size (in)	Metric thread	Part no.	Nominal conduit size (mm)	US conduit size (in)	NPT thread
SPL16/M16/C45	16	⅜"	M16	SPL16/038/C45	16	⅜"	⅜"
SPL16/M20/C45	16	⅜"	M20	SPL16/050/C45	16	⅜"	⅜"
SPL20/M20/C45	20	½"	M20	SPL20/050/C45	20	½"	½"
SPL25/M25/C45	25	¾"	M25	SPL25/075/C45	25	¾"	¾"
SPL32/M32/C45	32	1"	M32	SPL32/100/C45	32	1"	1"
SPL40/M40/C45	40	1 ¼"	M40	SPL40/125/C45	40	1 ¼"	1 ¼"
SPL50/M50/C45	50	1 ½"	M50	SPL50/150/C45	50	1 ½"	1 ½"
SPL63/M63/C45	63	2"	M63	SPL63/200/C45	63	2"	2"

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL		Static applications: -65°C to +150°C
UL514B File No. E60625	**IP54**	N/A	Moving applications: -45°C to +150°C
	IP65	N/A	
	IP66	Yes	
	IP67	Yes	
	IP68	Yes (10 bar 30 mins)	
	IP69	Yes	

Metallic conduit systems

EMI screen Type SB & STC - Adaptasteel

Type SB - Adaptasteel

Galvanised steel, overbraided steel, enhanced EMI screening, flexible conduit / Materials: Galvanised steel conduit, galvanised steel overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SB10	10	10.0	6.8	25	25
SB12	12	14.0	10.3	30	25
SB16	16	17.5	13.0	35	25
SB20	20	21.5	16.9	45	25
SB25	25	26.0	21.4	55	25
SB32	32	34.0	28.1	60	10
SB40	40	43.6	37.7	80	10
SB50	50	56.0	48.4	90	10
SB63	63	65.0	57.5	115	10
SB75	75	80.0	70.0	150	10

To order quote part number, colour & reel length, e.g. SPLHC12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SB		Static applications: -50°C to +300°C	Very high
	IP40	Type SB - Type A & B	Moving applications: -45°C to +250°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility – High fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A		
	IP69	N/A		

Type STC - Adaptasteel

Galvanised steel, overbraided tinned copper, high EMI screening, flexible conduit / Materials: Galvanised steel conduit, tinned copper overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
STC10	10	10.0	6.8	25	25
STC12	12	14.0	10.3	30	25
STC16	16	17.5	13.0	35	25
STC20	20	21.5	16.9	45	25
STC25	25	26.0	21.4	55	25
STC32	32	34.0	28.1	60	10
STC40	40	43.6	37.7	80	10
STC50	50	56.0	48.4	90	10

To order quote part number & reel length, e.g. STC12/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SB		Static applications: -50°C to +300°C	Very high
	IP40	Type SB - Type A & B	Moving applications: -45°C to +250°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility – High fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A		
	IP69	N/A		

Metallic conduit systems

EMI screen Type SSB & SSBGS - Adaptasteel

Type SSB - Adaptasteel

Overbraided, standard EMI screening, flexible conduit / Materials: Stainless steel conduit, stainless steel overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SSB12	12	14.0	10.3	30	25
SSB16	16	17.5	13.0	35	25
SSB20	20	21.5	16.9	45	25
SSB25	25	26.0	21.4	55	25
SSB32	32	34.0	28.1	60	10

To order quote part number, colour & reel length, e.g. SPLHC12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE	**For use with:** Type SB		Static applications: -50°C to +300°C	Very high
	IP40	Type SB - Type A & B	Moving applications: -45°C to +250°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility – High fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	STANDARD EMI SCREEN · EMI SCREEN · EMI SCREEN · INHERENT · LOW · FIRE HAZARD ILFH	
	IP69	N/A		

Type SSBGS - Adaptasteel

Overbraided, standard EMI screening, flexible conduit / Materials: Galvanised steel conduit, galvanised steel overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SSBGS12	12	14.0	10.3	30	25
SSBGS16	16	17.5	13.0	35	25
SSBGS20	20	21.5	16.9	45	25
SSBGS25	25	26.0	21.4	55	25
SSBGS32	32	34.0	28.1	60	10

To order quote part number & reel length, e.g. SSBGS12/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161 CE LOW VOLTAGE DIRECTIVE	**For use with:** Type SB		Static applications: -50°C to +300°C	Very high
	IP40	Type SB - Type A & B	Moving applications: -45°C to +250°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility – High fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	STANDARD EMI SCREEN · EMI SCREEN · EMI SCREEN · INHERENT · LOW · FIRE HAZARD ILFH	
	IP69	N/A		

Metallic conduit systems

EMI screen Type A & B - Adaptasteel

Type A - Adaptasteel

Straight fitting - Fixed Exteenal male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SB10/M12/A	10	M12
SB12/M16/A	12	M16
SB16/M16/A	16	M16
SB20/M20/A	20	M20
SB25/M25/A	25	M25
SB32/M32/A	32	M32
SB40/M40/A	40	M40
SB50/M50/A	50	M50
SB63/M63/A	63	M63
SB75/M75/A	75	M75

For insertion into knockouts using a locknut (order locknuts separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SB / STC / SSB / SSBGS		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Type B - Adaptasteel

Straight fitting - Swivel external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SB10/M12/B	10	M12
SB12/M16/B	12	M16
SB16/M16/B	16	M16
SB20/M20/B	20	M20
SB25/M25/B	25	M25
SB32/M32/B	32	M32
SB40/M40/B	40	M40
SB50/M50/B	50	M50

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161	**For use with:** Type SB / STC / SSB / SSBGS		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	**Fitting characteristics**
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Metallic conduit systems

EMI screen, liquid resistant Type SPB & SPTC - Adaptasteel

Type SPB - Adaptasteel

Overbraided, enhanced EMI screening, flexible conduit / Materials: Galvanised steel conduit with PVC covering, galvanised steel overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPB10	10	11.5	6.8	25	25
SPB12	12	15.5	10.3	25	25
SPB16	16	18.5	13.0	30	25
SPB20	20	23.0	16.9	35	25
SPB25	25	27.5	21.4	55	25
SPB32	32	35.5	28.1	60	10
SPB40	40	45.1	37.7	80	10
SPB50	50	57.5	48.4	90	10

To order quote part number & reel length, e.g. SPB12/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SPB		Static applications: -15°C to +70°C	Very high
	IP54	Type SB - Type A & B	Moving applications: -5°C to +90°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility – Medium fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A		

Type SPTC - Adaptasteel

Overbraided tinned copper, high EMI screening, flexible conduit / Materials: Galvanised steel conduit, galvanised steel overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPTC10	10	11.5	6.8	25	25
SPTC12	12	15.5	10.3	25	25
SPTC16	16	18.5	13.0	30	25
SPTC20	20	23.0	16.9	35	25
SPTC25	25	27.5	21.4	55	25
SPTC32	32	35.5	28.1	60	10
SPTC40	40	45.1	37.7	80	10
SPTC50	50	57.5	48.4	90	10

o order quote part number & reel length, e.g. SPTC12/25M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161	**For use with:** Type SB		Static applications: -15°C to +70°C	Very high
	IP54	Type SB - Type A & B	Moving applications: -5°C to +90°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	High flexibility – Medium fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	Self extinguishing	
	IP69	N/A		

Metallic conduit systems

EMI screen, liquid resistant Type LFH-SPSS & A - Adaptasteel

Type LFH-SPSS - Adaptasteel

Overbraided, enhanced EMI screening, flexible conduit / Materials: Galvanised steel conduit with low fire hazard jacket, stainless steel overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
LFH-SPSS12	12	15.0	10.3	30	25
LFH-SPSS16	16	18.0	13.0	35	25
LFH-SPSS20	20	22.5	16.9	45	25
LFH-SPSS25	25	27.0	21.4	55	25
LFH-SPSS32	32	35.0	28.1	60	10
LFH-SPSS40	40	45.5	37.7	80	10
LFH-SPSS50	50	56.0	48.4	90	10

To order quote part number, colour & reel length, e.g. SPLHC12/BL/50M

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
KM35161, CE LOW VOLTAGE DIRECTIVE, NF, UNDERGROUND	**For use with:** Type SPB		Static applications: -20°C to +90°C	Very high
	IP54	Type SB - Type A & B	Moving applications: -5°C to +105°C	
	IP65	N/A	**Flexibility & fatigue life**	
	IP66	N/A	Medium flexibility – Medium fatigue life	
	IP67	N/A	**Fire performance & EMI screen**	
	IP68	N/A	Self Extinguishing	STANDARD EMI SCREEN, ENHANCED ELFH FIRE HAZARD
	IP69	N/A		

Type A - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SPB10/M12/A	10	M12
SPB12/M16/A	12	M16
SPB16/M16/A	16	M16
SPB20/M20/A	20	M20
SPB25/M25/A	25	M25
SPB32/M32/A	32	M32
SPB40/M40/A	40	M40
SPB50/M50/A	50	M50

For insertion into knockouts using a locknut (order locknut separately)

Approvals	IP rating	Appropriate conduit	Temperature range
KM35161, CE LOW VOLTAGE DIRECTIVE	**For use with:** Type SPB / SPTC		Static applications: -50°C to +300°C
	IP40	Yes	Moving applications: -45°C to +250°C
	IP65	N/A	
	IP66	N/A	
	IP67	N/A	
	IP68	N/A	
	IP69	N/A	

Metallic conduit systems

EMI screen, liquid resistant Type B & Liquid tight, high strength Type SPLHCB - Adaptasteel

Type B - Adaptasteel

Straight fitting - Swivel external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SPB10/M12/B	10	M12
SPB12/M16/B	12	M16
SPB16/M16/B	16	M16
SPB20/M20/B	20	M20
SPB25/M25/B	25	M25
SPB32/M32/B	32	M32
SPB40/M40/B	40	M40
SPB50/M50/B	50	M50

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Type SPB / SPTC	
IP54	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69	N/A

Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

Fitting characteristics

Type SPLHCB - Adaptasteel

Extreme temperature, abuse resistant, overbraided, standard EMI screening, flexible conduit / Materials: Galvanised steel conduit, smooth thermoplastic rubber covering, stainless steel 316 overbraid

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SPLHCB16	16	19.8	12.5	80	25
SPLHCB20	20	23.1	15.9	95	25
SPLHCB25	25	28.4	21.0	115	25
SPLHCB32	32	35.1	26.7	145	10
SPLHCB40	40	44.0	35.4	180	10
SPLHCB50	50	56.0	40.4	240	10

To order quote part number & reel length, e.g. SPLHCB16/25M

Approvals

KM35161

IP rating	Appropriate fitting
For use with: Type SPLB	
IP40	N/A
IP65	N/A
IP66	Type SPLB - Type A & B
IP67	Type SPLB - Type A & B
IP68	Type SPLB - Type A & B
IP69	N/A

Temperature range

Static applications: -65°C to +135°C

Moving applications: -54°C to +150°C

Flexibility & fatigue life

Very high flexibility – High fatigue life

Fire performance & EMI screen

Self extinguishing

Halogen Free

UV resistance

Very high

Metallic conduit systems

EMI screen, liquid resistant Type LFH-SPSS & A - Adaptasteel

Type A - Adaptasteel

Straight fitting - Fixed external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SPLB16/M16/A	16	M16
SPLB16/M20/A	16	M20
SPLB20/M20/A	20	M20
SPLB25/M25/A	25	M25
SPLB32/M32/A	32	M32
SPLB40/M40/A	40	M40
SPLB50/M50/A	50	M50

For insertion into knockouts using a locknut (order locknut separately)

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Type SPLHCB	
IP40	N/A
IP65	N/A
IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	N/A

Temperature range

Static applications: -65°C to +135°C

Moving applications: -45°C to +150°C

Type B - Adaptasteel

Straight fitting - Swivel external male thread / Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)	Metric thread
SPLB16/M16/B	16	M16
SPLB16/M20/B	16	M20
SPLB20/M20/B	20	M20
SPLB25/M25/B	25	M25
SPLB32/M32/B	32	M32

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Approvals

KM35161

IP rating	Appropriate conduit
For use with: Type SPLHCB	
IP40	N/A
IP65	N/A
IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	N/A

Temperature range

Static applications: -65°C to +135°C

Moving applications: -45°C to +150°C

Fitting characteristics

Metallic conduit systems

Accessories - Type LNB/LNS, P & PSA

Type LNB/LNS

Metallic locknuts / Materials: Nickel plated brass, galvanised steel

Type LNB Metallic Locknuts

LNS Locknut

	Part no.	
Metric thread	Nickel plated brass	Galvanised steel
M12 x 1.0	LNB/M12X1	-
M12 x 1.5	LNB/M12	-
M16	LNB/M16	LNS/M16
M20	LNB/M20	LNS/M20
M25	LNB/M25	LNS/M25
M32	LNB/M32	LNS/M32
M40	LNB/M40	
M50	LNB/M50	
M63	LNB/M63	
M75	LNB/M75	

	Part no.
PG thread	Nickel plated brass
PG7	LNB/PG7
PG9	LNB/PG9
PG11	LNB/PG11
PG13,5	LNB/PG13
PG16	LNB/PG16
PG21	LNB/PG21
PG29	LNB/PG29
PG36	LNB/PG36
PG42	LNB/PG42
PG48	LNB/PG48

	Part no.
NPT thread	Steel
3/8”	LNS/038
1/2”	LNS/050
3/4”	LNS/075
1”	LNS/100
1 1/4”	LNS/125
1 1/2”	LNS/150
2”	LNS/200

Type P

P-Clip Conduit Support / Materials: Plated Steel or Stainless Steel Construction with PVC Insert

Plated steel part no.	Stainless steel part no.	Nominal conduit size (mm)
PCLIP/10	-	10
PCLIP/12	-	12
PCLIP/16	PCLIP/16SS	16
PCLIP/20	PCLIP/20SS	20
PCLIP/25	PCLIP/25SS	25

Plated steel part no.	Stainless steel part no.	Nominal conduit size (mm)
PCLIP/32	PCLIP/32SS	32
PCLIP/40	-	40
PCLIP/50	-	50
PCLIP/63	-	63
PCLIP/75	-	75

Type PSA

Proximity switch connectors / Materials: Nickel plated brass

	Part no.	
Internal thread	To M16 internal thread	To PG9 internal thread
M12 x 1.0	PSA16/M12	PSA9/M12
M18 x 1.0	PSA16/M18	PSA9/M18
M30	PSA16/M30	PSA9/M30

Metallic conduit systems

Accessories - Type 90/45, TC & Female couplers

Type 90/45

Brass elbows / Materials: Nickel plated brass

Type 90 Brass Elbow

Metric external male thread	Metric female metric thread	Part no. Type 90°	Part no. Type 45°
M16	M16	B/M16/90	-
M16	M20	-	B/M16/45
M20	M20	B/M20/90	B/M20/45
M25	M25	B/M25/90	B/M25/45
M32	M32	B/M32/90	B/M32/45

NPT external male thread	Metric female metric thread	Part no. Type 90°	Part no. Type 45°
½"	M20	B/050/90	B/050/45
¾"	M25	B/075/90	B/075/45
1"	M32	B/100/90	-

Type 45 Brass Elbow

Metric external male thread	Metric female metric thread	Part no. Type 90°	Part no. Type 45°
PG9	M16	B/PG9/90	
PG11	M16	B/PG11/90	B/PG11/45
PG13,5	M20	B/PG13/90	B/PG13/45
PG16	M20	B/PG16/90	B/PG16/45
PG21	M25	B/PG21/90	B/PG21/45

Type TC

Unef thread converter with two internal female threads / Materials: Nickel plated brass

Internal thread	To M16 internal thread	To M20 internal thread	To M25 internal thread	To M32 internal thread
⅝" UNEF	B/063U-M16/TC	-	-	-
¾" UNEF	B/075U-M16/TC	B/075U-M20/TC	-	-
⅞" UNEF	-	B/088U-M20/TC	-	-
1" UNEF	-	B/100U-M20/TC	B/100U-M25/TC	-
1 3⁄16" UNEF	-	B/119U-M20/TC	B/119U-M25/TC	-
1 5⁄16" UNEF	-	B/131U-M20/TC	-	-
1 7⁄16" UNEF	-		B/144U-M25/TC	B/144U-M32/TC

For insertion into threaded entries & knockouts using a locknut (order locknut separately)

Female Coupler

Brass internal female coupler / Materials: Nickel plated brass

Part no.	Metric thread
B/M16/C	M16
B/M20/C	M20
B/M25/C	M25
B/M32/C	M32

Part no.	Metric thread
B/M40/C	M40
B/M50/C	M50
B/M63/C	M63
B/M75/C	M75

Metallic conduit systems

Accessories - Type E, R & TC

Type LNB/LNS

Metallic locknuts / Materials: Nickel plated brass, galvanised steel

Type E, R & C
Enlargers, Reducers & Converters

External thread	To PG7 internal thread	To PG9 internal thread	To PG11 internal thread	To PG13,5 internal thread
M16	B/M16-PG7/TC	B/M16-PG9/TC	B/M16-PG11/TC	-
M20	B/M20-PG7/TC	B/M20-PG9/TC	B/M20-PG11/TC	B/M20-PG13/TC
M25	-	-	-	-
M32	-	-	-	-
M40	-	-	-	-
M50	-	-	-	-
PG7	-	B/PG7-PG9/E	-	-
PG9	B/PG9-PG7/R		B/PG9-PG11/E	B/PG9-PG13/E
PG11	B/PG11-PG7/R	B/PG11-PG9/R	-	B/PG11-PG13/E
PG13,5	B/PG13-PG7/R	B/PG13-PG9/R	B/PG13-PG11/R	-
PG16	B/PG16-PG7/R	B/PG16-PG9/R	B/PG16-PG11/R	B/PG16-PG13/R
PG21	-	-	B/PG21-PG11/R	B/PG21-PG13/R
PG29	-	-	-	-
PG36	-	-	-	-
PG42	-	-	-	-
PG48	-	-	-	-

External thread	To M10 internal thread	To M12 internal thread	To M16 internal thread	To M20 internal thread
M16	-	B/M16-M12/R	-	B/M16-M20/E
M20	B/M20-M10/R	B/M20-M12/R	B/M20-M16/R	-
M25	-	-	-	B/M25-M20/R
M32	-	-	-	-
M40	-	-	-	-
M50	-	-	-	-
PG7	-	-	B/PG7-M16/TC	B/PG7-M20/TC
PG9	-	-	B/PG9-M16/TC	B/PG9-M20/TC
PG11	-	-	B/PG11-M16/TC	B/PG11-M20/TC
PG13,5	-	-	B/PG13-M16/TC	B/PG13-M20/TC
PG16	-	-	B/PG16-M16/TC	B/PG16-M20/TC
PG21	-	-	B/PG21-M16/TC	B/PG21-M20/TC
PG29	-	-	-	B/PG29-M20/TC
PG36	-	-	-	-
PG42	-	-	-	-
PG48	-	-	-	-
1/2" NPT	-	-	B/050-M16/TC	B/050-M20/TC

To PG16 internal thread	To PG21 internal thread	To PG29 internal thread	To PG36 internal thread	To PG42 internal thread	To PG48 internal thread
-	-	-	-	-	-
B/M20-PG16/TC	B/M20-PG21/TC	-	-	-	-
-	B/M25-PG21/TC	-	-	-	-
-	-	B/M32-PG29/TC	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
B/PG11-PG16/E	-	-	-	-	-
B/PG13-PG16/E	B/PG13-PG21/E	-	-	-	-
-	B/PG16-PG21/E	-	-	-	-
B/PG21-PG16/R	-	B/PG21-PG29/E	-	-	-
B/PG29-PG16/R	B/PG29-PG21/R	-	B/PG29-PG36/E	-	-
-	B/PG36-PG21/R	B/PG36-PG29/R	-	B/PG36-PG42/E	B/PG36-PG48/E
-	-	B/PG42-PG29/R	B/PG42-PG36/R	-	B/PG42-PG48/E
-	-	-	B/PG48-PG36/R	B/PG48-PG42/R	-

To M25 internal thread	To M32 internal thread	To M40 internal thread	To ½" NPT internal thread
-	-	-	-
B/M20-M25/E	-	-	B/M20-050/TC
-	B/M25-M32/E	-	-
B/M32-M25/R	-	-	-
-	B/M40-M32/R	-	-
-	-	B/M50-M40/R	-
-	-	-	-
-	-	-	-
-	-	-	B/PG11-050/TC
-	-	-	-
B/PG16-M25/TC	-	-	B/PG16-050/TC
B/PG21-M25/TC	B/PG21-M32/TC	-	-
B/PG29-M25/TC	B/PG29-M32/TC	B/PG29-M40/TC	-
-	B/PG36-M32/TC	B/PG36-M40/TC	-
-	-	-	-
-	-	-	-
-	-	-	-

Convenience packs

Professional installer conduit systems

LFH Convenience

Type	Type	Conduit/fitting diameter (mm)	One-piece conduit fittings	Locknuts
CP-AF20A	10m Black Type PA LFH Nylon 6, 20mm diameter	20	10	10
CP-AF25A	10m Black Type PA LFH Nylon 6, 25mm diameter	25	10	10

Convenience pack / Nylon Conduit with Adaptalok One-Piece, Fast Fit, Push & Twist Fittings
Materials: Polyamide Nylon 6 / Colour: Black (BL)

LFH Convenience

Type	Type	Conduit/fitting diameter (mm)	One-piece conduit fittings	Locknuts
CP-AF20BS-PP	10m Grey Type PP Polypropylene, 20mm diameter	20	10	10
CP-AF25BS-PP	10m Grey Type PP Polypropylene, 25mm diameter	25	10	10
CP-AF20A-APP	Pack of 10 Grey Fittings (Straight), 20mm diameter	20	10	-
CP-AF25A-APP	Pack of 10 Grey Fittings (Straight), 25mm diameter	25	10	-

Convenience Pack / Type PP Polypropylene Conduit with One-Piece, Fast Fit, Push & Twist Fittings
Materials: PP Polypropylene / Colour: Grey (GR)

Retail / Office Convenience

Type	Type	Conduit/fitting diameter (mm)	One-piece conduit fittings	Locknuts
CP-AF20BS	10m Grey Type KF PVCu, 20mm diameter	20	10	10
CP-AF25BS	10m Grey Type KF PVCu, 20mm diameter	25	10	10
CP-KF20BS	10m White Type KF PVCu, 25mm diameter	20	10	10
CP-KF25BS	10m White Type KF PVCu, 25mm diameter	25	10	10

Convenience Pack / Self-Extinguishing PVC Conduit & One-Piece Fittings & Locknuts
Materials: PVC Pliable / Colour: White (W), Grey (GR)

Liquid Resistant Convenience

Type	Conduit type	Conduit diameter (mm)	Adaptasteel fittings	Locknuts
CP-AF20SP-BS	10m Black Type SP PVC Covered Steel	20	N/A	10

Convenience Pack / Type SP Adaptasteel PVC Covered Steel Conduit with Fixed and Swivel Fittings
Materials: PVC Covered Galvanised Steel / Colour: Black (BL)

IP rating
IP66
IP66

IP rating
IP54
IP54
IP54
IP54

IP rating
IP66
IP66
IP66
IP66

Fixed male fitting	Swivel male fitting	IP rating
5	5	IP54

Cutting Tools

Kwikcut & Swingcut

Kwikcut **Kwikcut cutting tool**

Part no.
KWIKCUT

Swingcut **Swingcut cutting tool**

Part no.
SWINGCUT

Kwikcut
Kwikcut is the ideal cutting tool for non-metallic conduits (PA, PF, PI, PR, PADL, CP, KFL, KFS, KFM, PP, XF & PK) up to 32mm.

Instructions
Place the conduit between the cutting blade and lower support, squeeze the handles and rotate the conduit for a clean, easy cut. Spare blades are available.

Swingcut
Swingcut is a versatile vice and saw combination tool which facilitates a neat, square cut for liquid tight and pliable conduits between 10mm and 32mm. Six to one leverage advantage provides a strong cutting action.

Instructions
Place the conduit in the vice and secure. Move the operating handle backwards and forwards whilst applying increasing pressure to the supporting handle.

Hardened captive spring loaded retaining pins make blade replacement easy. Spare blades are available.

Cutting Tools
Cut-vice & Rotocut

Cut-Vice **Cut-vice cutting tool**

Part no.
CUT-VICE

Cut-Vice
Cut-vice offers the ability to produce a clean cut for conduit sizes 16mm to 40mm.

Instructions
Place the conduit along the vice body and tighten the clamp. Holding the conduit and integral handle together, insert a hacksaw blade into the guide and cut. For braided conduit, wrap adhesive tape around the cutting point to secure braid. Remove tape after cutting.

Rotocut **Rotocut cutting tool**

Part no.
ROTOCUT

Rotocut
Rotocut offers a simple but effective method for cutting 20mm and 25mm S, SS, SP, LFH-SP and SN steel conduit types.

Instructions
Adjust the clamping pin so that the conduit is just held in the recess. Squeeze the lever and body whilst rotating the cutting blade. When the blade appears on the inside of the conduit, release the pressure and remove the conduit.
A simple twist will then separate the two parts. Where the conduit is covered, the covering can be cut prior to separation. Spare blades are available.

Cable glands
Introduction

Range overview - Incorporating high quality design and manufacture, products include cable glands and terminal blocks.

—
01 Euro Index - cable gland
—
02 Clamping bush

Cable glands
Cable glands provide sealing and retention for a wide range of cables for general indoor and outdoor applications.

The Standard Range of “Hex” cable glands has been widely recognised as the UK “Industry Standard” for plastic cable glands for over 30 years offering excellent all-round performance. Euro Index is the next generation of Cable Glands with enhanced IP and load functionality. Also available is the Index Cable Gland range providing high strength and performance for a variety of applications. A range of accessories are available including seals, grommets, metric adaptors and reducers, locknuts and sealing washers.

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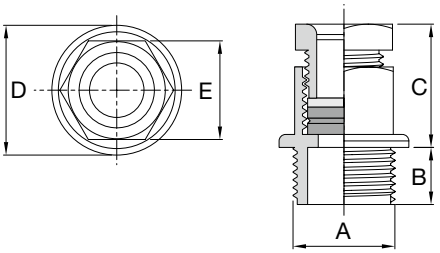
01

—
02

Way out
Way out

Cable glands

Standard - cable gland



Standard - Cable Gland

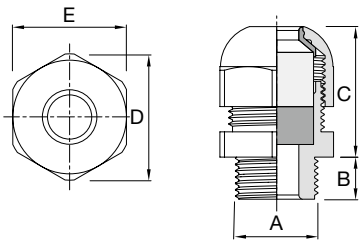
General purpose IP66 cable gland / Materials: Polyamide 6.6 with nitrile rubber seal / Colour: Red RAL 3031 (R), White RAL 9010 (W), Grey RAL 7030 (G), Black RAL 9005 (B)

Part no.	Metric thread A	Thread lengths B (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Gland Depth C (mm)	Gland diameter D (mm)	Across flats dimension E (mm)	Pack quantity	Sealing washer part no.	Locknut part no.	Colours
248	M16	10	6	4	25.0	22.0	19	100	96	92	● ○ ● ●
250	M16	10	10	7	25.0	22.0	19	100	96	92	● ○ ● ●
249	M20	11	6	4	25.0	25.0	19	100	97	93	● ○ ● ●
251	M20	11	10	7	25.0	25.0	19	100	97	93	● ○ ● ●
252	M20	11	13	8	30.5	26.0	23	100	97	93	● ○ ● ●
264	M25	12	6	4	25.0	31.5	19	100	98	94	● ○ ● ●
265	M25	12	10	7	25.0	31.5	19	100	98	94	● ○ ● ●
253	M25	12	13	8	30.5	31.5	23	100	98	94	● ○ ● ●
254	M25	12	18	12	32.5	32.0	28	100	98	94	● ○ ● ●
255	M32	13	24	18	35.0	41.0	36	100	99	95	● ○ ● ●
256	M16	20	6	4	25.0	22.0	19	100	96	92	● ○ ● ●
258	M16	20	10	7	25.0	22.0	19	100	96	92	● ○ ● ●
257	M20	20	6	4	25.0	25.0	19	100	97	93	● ○ ● ●
259	M20	20	10	7	25.0	25.0	19	100	97	93	● ○ ● ●
260	M20	20	13	8	30.5	26.0	23	100	97	93	● ○ ● ●
266	M25	20	6	4	25.0	31.5	19	100	98	94	● ○ ● ●
267	M25	20	10	7	25.0	31.5	19	100	98	94	● ○ ● ●
261	M25	20	13	8	30.5	31.5	23	100	98	94	● ○ ● ●
262	M25	20	18	12	32.5	32.0	28	100	98	94	● ○ ● ●
263	M32	20	24	18	35.0	41.0	36	100	99	95	● ○ ● ●

Colour Key: Red ● / White ○ / Black ● / Grey ●
To order quote part number & colour, e.g. 248-W
Standard cable gland gives good all-round performance and is the corner stone of Elkay's diverse cable gland range
Cable glands can be supplied assembled with locknuts and sealing washers as required

Cable glands

Index A2P & Euro Index - cable glands



Index A2P - Cable Gland

High performance IP68 upto 15bar cable gland / Materials: Polyamide 6.6 with nitrile rubber seal
Colour: Black RAL 9005 (B)

Part no.	Metric thread A	Thread lengths B (mm)	Gland length compressed C (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Gland diameter D (mm)	Across flats dimension E (mm)	Pack quantity	Sealing washer	Locknut
200-8160	M16	15	24	8.0	4.0	26.0	24	50	96	92-B
200-8240	M20	15	24	8.0	4.0	26.0	24	50	97	93-B
200-8320	M20	15	25	10.0	7.5	30.0	27	50	97	93-B
200-8400	M20	15	26	13.2	9.5	35.5	32	50	97	93-B
200-8560	M25	15	28	18.0	13.0	40.0	36	25	98	94-B
200-8640	M32	15	31	25.0	17.5	51.0	46	10	99	95-B
200-8720	M40	15	31	31.5	24.5	61.0	55	10	121	111-B
200-8800	M50	15	31	37.0	31.0	78.0	70	5	122	112-B
200-8880	M50	15	31	43.0	36.5	78.0	70	5	122	112-B

Euro Index - Cable Gland

IP68 industrial 3 part plastic cable gland / Materials: Polyamide 6.6 with nitrile rubber seal /
Colour: Red RAL 3031 (R), White RAL 9010 (W), Grey RAL 7030 (G), Black RAL 9005 (B), Dark Grey RAL 7001 (DG)

Part no.	Metric thread A	Thread lengths B (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Gland depth C (mm)	Gland diameter D (mm)	Across flats dimension E (mm)	Pack quantity
ESM12-10	M12	8	6.5	2	23.0	19.0	17	100
ESM16-11	M16	9	10.0	4	25.5	23.5	21	100
ESM20-12	M20	10	12.0	6	27.0	27.0	24	100
ESM20-13	M20	10	14.0	10	28.5	30.0	27	100
ESM25-14	M25	11	18.0	13	29.0	33.0	30	100
ESM32-15	M32	12	25.0	17	37.0	45.5	41	50
ESM40-16	M40	13	32.0	24	42.0	55.5	50	25

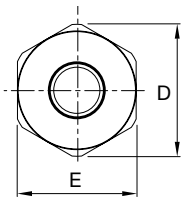
To order quote part number & colour, e.g. ESM12-10B-LN

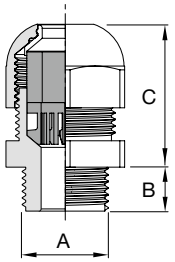
Approvals	IP rating		Temperature range	Halogen free	Flammability
CE LOW VOLTAGE DIRECTIVE, VDE	**IP68**	Yes (5 bar 30mins)	Static applications: -20°C to +90°C	Yes	UL94 - V2 (Nylon material)

Key features
Smaller working envelope on bulkhead or panel
Integral claw design prevents cable twisting during installation
Wide cable acceptance range for each gland size
Designed to EN 50262:1999

Cable glands

Index Claw - cable gland





Index Claw - Cable Gland

High performance IP68 cable gland / Materials: Polyamide 6.6 with nitrile rubber seal / Colour: Black RAL 9005 (B)

Part no.	Metric thread A	Thread lengths B (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Gland depth C (mm)	Gland diameter D (mm)	Across flats dimension E (mm)	Pack quantity	Sealing washer	Locknut part no.
211-9020	M16	15	9	5	24	26	24	50	96	92-B
211-9060	M20	15	11	7	25	30	27	50	97	93-B
211-9140	M20	15	16	12	26	35	32	50	97	93-B

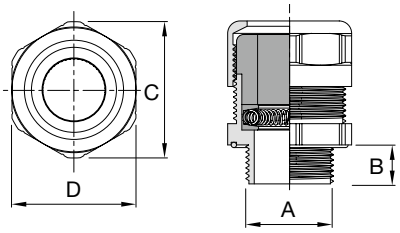
The Index Claw Gland is suitable for many applications where cables are subject to high tensile loads. Typical applications would range from portable equipment such as generators to highly mobile factory equipment. The performance of the Index Claw Gland allows for IP68 rating at 5 bar and cable anchorage of 15.9kgs

Approvals	IP rating		Temperature range	Halogen Free	Flammability
CE LOW VOLTAGE DIRECTIVE	**IP68**	Yes (5 bar 30mins)	Static applications: -20°C to +90°C	Yes	UL94 - V2 (Nylon material)

Key features
Ideal for general use
IP68 Protection (5 bar 30mins)
Metric

Cable glands

Index EMC Type A & B - cable glands



Index EMC Type A - Cable Gland

High performance IP68 cable gland / Materials: Nickel plated brass, Stainless steel spring, rubber seal (TPE-V)

Part no.	Metric thread A	Type	Thread lengths B (mm)	Gland diameter C (mm)	Across flats dimension D (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Screen dia. max (mm)	Screen dia. min (mm)	Pack quantity	Locknut part no.
260-1050	M16	A	10	26.7	24	9	6	7.5	3.5	1	260-0500
260-1100	M16	A	10	26.7	24	11	7	8.5	4	1	260-0500
260-1200	M20	A	10	26.7	24	9	6	7.5	3	1	260-0600
260-1250	M20	A	10	26.7	24	11	7	8.5	4	1	260-0600
260-1300	M25	A	11	33.5	30	9.5	6	8.5	6	1	260-0650
260-1350	M25	A	11	33.5	30	11	6	9.0	6	1	260-0650
260-1700	M32	A	13	43.5	40	26	22	21.0	15	1	260-0700
260-1750	M40	A	14	54.0	50	29	25	25.0	18	1	260-0750
260-1900	M50	A	15	65.0	60	41	37	33.0	29	1	260-0800

Index EMC Type B - Cable Gland

High performance IP68 cable gland / Materials: Nickel plated brass, stainless steel spring, rubber seal (TPE-V)

Part no.	Metric thread A	Type	Thread lengths B (mm)	Gland diameter C (mm)	Across flats dimension D (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Screen dia. max (mm)	Screen dia. min (mm)	Pack quantity	Locknut part no.
260-1000	M16	B	10	26.7	24	6	4	6.0	3.0	1	260-0500
260-1150	M20	B	10	26.7	24	6	4	6.0	3.0	1	260-0600
260-1400	M25	B	11	33.5	30	11	6	10.5	6.0	1	260-0650
260-1450	M25	B	11	33.5	30	14	10	13.0	8.0	1	260-0650
260-1550	M25	B	11	33.5	30	18	14	17.5	12.5	1	260-0650
260-1650	M32	A/B	13	43.5	40	23	19	21.0	15.0	1	260-0700
260-1800	M40	B	14	54.0	50	32	29	30.5	24.0	1	260-0750

The INDEX Uni Iris range of cable glands are for use with screened cable and have been designed to connect the screen of the cable to the enclosure screening system
This is achieved by the use of two tapered rings applying force onto a continuous stainless steel spring washer pressing against the screen, ensuring positive contact
Assembly is simple, the screen is exposed, the spring and washers are slipped in place and then the gland can be tightened

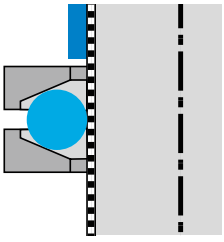
Approvals
CE LOW VOLTAGE DIRECTIVE

IP rating	
IP68	Yes (10 bar 30mins)

Key features
Screen continues into enclosure
IP68 Protection at 10 bar for 30 minutes
Metric
For use with systems conforming to EN50 082-1/2

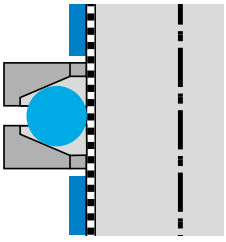
Temperature range
Static applications: -40°C to +135°C

Type A
Stripped Cable Sheath - Allowing the outer sheath to be completely stripped from the cable



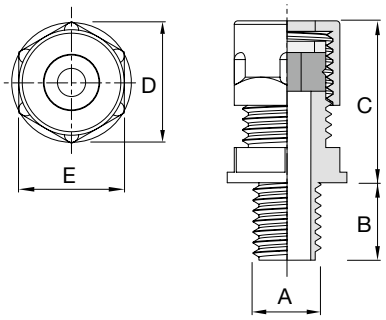
Halogen free
Yes

Type B
Continuous Cable Sheath - Allowing for a ring of outer sheath only to be stripped



Cable glands

Miniature gland & cord grip bush



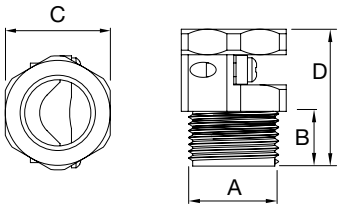
Miniature Gland

Small cable size IP66 cable gland / Materials: Polyamide 6.6 with nitrile rubber seal / Colour: Black RAL 9005 (B), White RAL 9010 (W) - Black part numbers listed

Part no.	Metric thread A	Thread lengths B (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Gland depth C (mm)	Gland diameter D (mm)	Across flats dimension E (mm)	Pack quantity	Sealing washer	Locknut part no.
238	M10	8	5	2	21	17	15	100	68	78-B
240	M10	8	7	5	21	17	15	100	68	78-B
244	M10	20	5	2	21	17	15	100	68	78-B
246	M10	20	7	5	21	17	15	100	68	78-B
239	M13	8	5	2	21	17	15	100	69	79-B
241	M13	8	7	5	21	17	15	100	69	79-B
245	M13	20	5	2	21	17	15	100	69	79-B
247	M13	20	7	5	21	17	15	100	69	79-B

Miniature cable glands are ideal for small cable sizes and offer IP66 protection. To order quote part number & colour, e.g. 238-W
Miniature cable glands are available with either long or short threads. Locknuts and sealing washers are available as separate items

Approvals	IP rating		Temperature range	Halogen free	Flammability
CE	**IP66**	Yes	Static applications: -20°C to +90°C	Yes	UL94 - V2 (Nylon material)



Cord Grip Bush

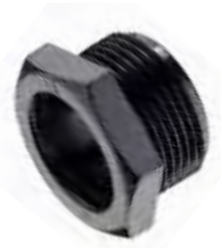
Cord grip entry bush / Materials: Polyamide 6.6 / Colour: Black RAL 9005 (B)

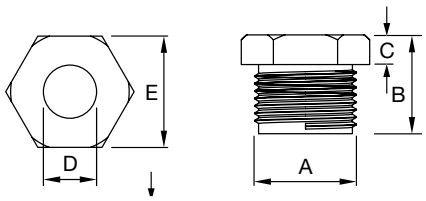
Part no.	Metric thread A	Thread lengths B (mm)	Cable max diameter (mm)	Cable min diameter (mm)	Across flats dimension C (mm)	Overall length D (mm)	Pack quantity	Sealing washer	Locknut part no.
743-B	M16	9	11	3.5	19	23.5	100	96	92-B
744-B	M20	12	14	4.0	23	29.5	100	97	93-B
745-B	M25	12	18	8.0	27	29.5	100	98	94-B

Approvals	IP rating		Temperature range	Halogen free	Flammability
CE	**IP66**	N/A	Static applications: -20°C to +90°C	Yes	UL94 - V2 (Nylon material)

Cable glands

Clamping bush & stopping plugs



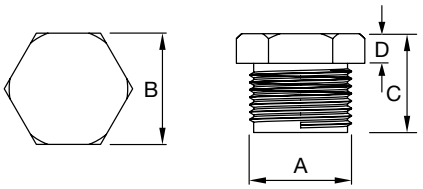


Clamping Bush

Smooth cable guide / Materials: Polyamide 6.6 / Colour: Black RAL 9005 (B)

Part no.	Metric thread A	Plug length B (mm)	Hexagon thickness C (mm)	Hole diameter D (mm)	Across flats dimension E (mm)	Pack quantity
46-B	M16	14	5	10.5	19	100
47-B	M20	18	6	13.0	23	100
48-B	M25	18	6	19.0	28	100

Approvals	IP rating		Temperature range	Halogen free	Flammability
CE LOW VOLTAGE DIRECTIVE	**IP66**	N/A	Static applications: -10°C to +90°C	Yes	UL94 - V2 (Nylon material)



Stopping Plug

General purpose IP66 stopping plug / Materials: Polyamide 6.6 / Colour: Black RAL 9005 (B)

Part no.	Metric thread A	Across flats dimension E (mm)	Plug length C (mm)	Head depth D (mm)	Pack quantity
64-B	M16	19	14	5	100
65-B	M20	23	18	6	100
66-B	M25	28	18	7	100
67-B	M32	36	19	3	100

Approvals	IP rating		Temperature range	Halogen free	Flammability
CE LOW VOLTAGE DIRECTIVE	**IP66**	N/A	Static applications: -10°C to +90°C	Yes	UL94 - V2 (Nylon material)

Aquasafe
Introduction

Range overview - In-Line (IP68 - 16A) - The in-line range is typically used where temporary connections are required for power. The range offers a variety of cable acceptances sizes, whilst maintaining a compact working envelope.

Cable Glands
Aquasafe is suitable for temporary immersion to IP68 2 Bar for 30 minutes (Note: Not submersible). The housings are defined as either Female or Male. The Female housing has the collar moulding, and the Male housing is smaller in diameter, and fits inside the opposite housing. The inner connectors are defined as either a Plug or Socket according to the metal inserts.

Bulkheads (IP68 - 16A)
If power is being distributed and controlled from a fixed installation, it may be more appropriate to mount products into an enclosure or electrical equipment. As an alternative to the in-line connector, Adaptaflex offer complimentary mounting options including:

- **Chassis/panel mounting** (screwed)
  Supplied with M25 Locknut and Sealing Washer as tandard, the thread has flats to orientate the housing during installation
- **Bulkhead/surface mounting** (flanged)
  Flanged to suit surface mounting where space is restricted behind the application

Each bulkhead/panel mounted housing can be used in conjunction with the appropriate mating in-line connector.

CE LOW VOLTAGE DIRECTIVE **IEC 61984**

Sealing Caps (IP68)
Sealing caps can be fitted to each individual housing to maintain protection when the connectors are separated. This ensures electrical safety at all times, even when the connectors are not in use. The caps are operated in exactly the same manner as the connectors, by the latch mechanism held within the collar. A strap is also provided to retain the sealing cap onto the housings, for light static applications.

Aquasafe

In-Line Aqua-safe

In-Line Aqua-safe

IP68 - 16A Standard in-line product / Materials: Plug & socket connector: polycarbonate, outer housing: glass filled nylon with nitrile rubber seal / Colour: Black

Part no.	Description	Conector details	Cable range	Pack quantity
185-9000	In-line waterproof connector assembly	3 pole plug & socket	5-9	1
185-9100	In-line waterproof connector assembly	3 pole plug & socket	8-13	1
185-9200	In-line waterproof connector assembly	3 pole plug & socket	12-16	1
185-OA1011-P030-1	In-line waterproof female housing	3 pole plug	5-9	1
185-OA1021-P030-1	In-line waterproof female housing	3 pole plug	8-13	1
185-OA1031-P030-1	In-line waterproof female housing	3 pole plug	12-16	1
185-1A1011-S030-1	In-line waterproof male housing	3 pole socket	5-9	1
185-1A1021-S030-1	In-line waterproof male housing	3 pole socket	8-13	1
185-1A1031-S030-1	In-line waterproof male housing	3 pole socket	12 -16	1

Approvals	IP rating	Temperature range	Halogen free	Flammability
IEC 61984	**IP68** Yes (up to 2 bar 30mins) Note: Not submersible	Static applications: -25°C to +80°C	Yes	UL94 - V2

Bulkhead Aqua-safe
Bulkhead Male Screwed

Bulkhead Aqua-safe
Bulkhead Female Screwed

Bulkhead Aqua-safe
Bulkhead Male Flanged

Bulkhead Aqua-safe
Bulkhead Female Flanged

Bulkhead Aqua-safe

IP68 - 16A Standard bulkhead product / Materials: Plug & socket connector: polycarbonate, outer housing: glass filled nylon with nitrile rubber seal / Colour: Black

Part no.	Description	Conector details	Pack quantity
185-0B1000-P030-1	Aqua-safe Bulkhead Female Housing	Flanged 3 Pole Plug	1
185-0E1000-P030-1	Aqua-safe Bulkhead Female Housing	Screwed 3 Pole Plug	1
185-1B1000-S030-1	Aqua-safe Bulkhead Male Housing	Flanged 3 Pole Socket	1
185-1E1000-S030-1	Aqua-safe Bulkhead Male Housing	Screwed 3 Pole Socket	1

Approvals	IP rating	Temperature range	Halogen free	Flammability
IEC 61984	**IP68** Yes (up to 2 bar 30mins) Note: Not submersible	Static applications: -25°C to +80°C	Yes	UL94 - V2

Aquasafe
Sealing Caps

Female sealing cap

Male Sealing Cap

Sealing Caps **IP68 - 16A Sealing caps / Colour: Black**

Part no.	Description	Pack quantity
185-6100	Male sealing cap with strap to suit all female housings	100
185-6200	Female sealing cap with strap to suit all male housings	100

Technical section

Thread data

Metric thread data

Thread size	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch (mm)
M8	8	6.9	1
M10	10	8.9	1
M12	12	10.9	1
M12	12	10.4	1.5
M16	16	14.4	1.5
M18	18	16.9	1
M20	20	18.4	1.5
M25	25	23.4	1.5
M30	30	28.4	1.5
M32	32	30.4	1.5
M40	40	38.4	1.5
M50	50	48.4	1.5
M63	63	61.4	1.5
M75	75	73.4	1.5

Standard Thread Conforming to EN60423 & BS3643
NOTE: Dimensions are nominal

PG thread data

Thread size	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch (mm)
PG7	12.5	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13,5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37	35.5	1.59
PG36	47	45.5	1.59
PG42	54	52.5	1.59
PG48	59.3	57.8	1.59

German Standard Thread Conforming to DIN40430
NOTE: Dimensions are nominal

PF thread data

Thread size (in)	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch (mm)
¼	13	-	1.34
⅜	16.7	15.0	1.34
½	21.0	18.6	1.81
¾	26.4	24.1	1.81
1	33.3	30.3	2.31
1 ¼	41.9	39.0	2.31
1 ½	47.8	44.8	2.31
2	59.6	56.7	2.31

Japanese Conduit Thread Conforming to JIS B 0202
NOTE: Dimensions are nominal

NPT thread data

Thread size (in)	External thread outside diameter (mm)	Pitch (mm)
⅜	16.7	1.14
½	21.0	1.81
¾	26.4	1.81
1	33.3	2.21
1 ¼	41.9	2.21
1 ½	47.8	2.21
2	59.6	2.21

US Taper Seal Pipe Thread Conforming to ANSI/ASME B1.20.1 - 1983
NOTE: Dimensions are nominal

UNEF / UNS thread data

Thread size (in)	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch (mm)
⅝	15.9	14.7	1.06
¾	19.1	17.7	1.27
13/16	20.6	19.3	1.27
⅞	22.2	20.9	1.27
15/16	23.8	22.4	1.27
1	25.4	24.0	1.27
1 ⅛	28.6	27.0	1.41
1 3/16	30.2	28.6	1.41
1 ¼	31.8	30.2	1.41
1 5/16	33.3	31.8	1.41
1 ⅜	34.9	33.4	1.41
1 7/16	36.5	35.0	1.41
1 ¾	44.5	42.9	1.41
2	50.8	49.3	1.59
2 ¼	57.2	55.4	1.59

American Unified Thread conforming to BS1580
NOTE: Dimensions are nominal

Technical section

EMI screen system & fire performance

EMI screen system

For applications where electromagnetic interference is of particular concern we have classified suitable conduit systems by means of symbols. These are related in an ascending scale of performance from Standard EMI Screen (products featuring a stainless steel overbraid) through to High EMI Screen (products featuring a tinned copper overbraid). Contact us for full details.

Standard EMI Screen	Super Low Fire Hazard	Inherent Low Fire Hazard
Screening level 40db @ 100MHz	Screening level 60db @ 100MHz	Screening level 75db @ 100MHz

Fire performance

Adaptaflex has introduced a set of symbols to help the user specify conduit systems for installations where fire performance is of particular concern.

Each symbol encompasses a range of properties relevant to the high specification materials used in the construction of the conduit.

They are in an ascending scale of performance from Low Fire Hazard (LFH) featuring zero halogen through to Super Low Fire Hazard (SLFH) featuring zero nitrogen. In addition, Inherent Low Fire Hazard systems (ILFH) are classified as being all metal systems.

Property	Low Fire Hazard LFH	Enhanced Low Fire Hazard ELFH	Super Low Fire Hazard SLFH	Inherent Low Fire Hazard ILFH
Oxygen Index ISO4589	31% ≥ OI ≥ 28%	OI ≥ 32%	OI ≥ 32%	Inherent Low Fire Hazard i.e. Type S, SS, SPB STC, SSB & SSBGS Metallic Conduit & Fittings
BS6853 Smoke Density 3m³	0.02 ≥ A0 ≥ 0.03	0.005 ≥ A0 ≥ 0.02	0.02 A0 ≤ 0.005	
Zero Halogen	■	■	■	
Zero Phosphorus	■	■	■	
Zero Sulphur	■	■	■	
London Underground	Concession	Approved	Approved	
Toxicity Index NES713 Issue 3	5.0 ≥ TI ≥ 6.0	0.5 ≥ TI ≥ 5.0	TI ≤ 0.5	
NFF16-102	I3F2	I2F2	I2F1	

Technical section
IP ratings

IP suitability ratings are a system for classifying the degree of protection provided by enclosures of electrical equipment.

Protection against solid bodies
Degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.

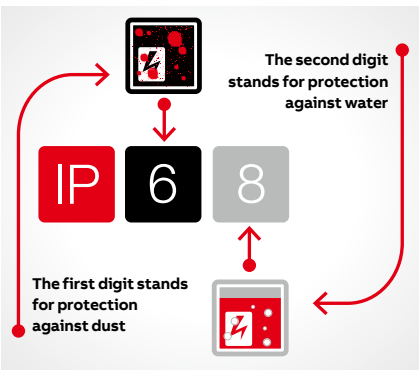
0	No protection
1	Objects greater than 50 mm, accidental touch by hands
2	Objects greater than 12 mm, accidental touch by fingers
3	Objects greater than 2.5 mm, e.g. tools/wires
4	Objects greater than 1 mm, e.g. tools/wires/small wires
5	Protected against dust - limited ingress (no harmful deposits)
6	Totally protected against dust (dust-tight)

Protection against water
Degree of protection of equipment inside enclosures against damage from the ingress of water.

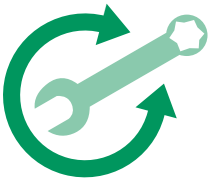
0	No protection
1	Protected against vertically falling drops of water
2	Protected against direct sprays of water 15° from vertical
3	Protected against sprays of water to 60° from vertical
4	Protected against water sprayed from all directions - limited ingress permitted
5	Protected against low pressure jets of water from all directions - limited ingress permitted
6	Protected against strong pressure jets of water, heavy seas - limited ingress permitted
7	Protection against the effects of immersion between 15cm - 1 m
8	Protection against long periods of immersion under a quoted pressure, e.g. 2 bar at 24 hours
9	IP69 Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80 bar) from any angle

01 **IP ratings**
The higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.

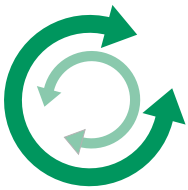
01



Technical section
Fitting characteristics



Fitting swivels independently of conduit for installation purpose but is not suitable as a rotating joint in constantly moving applications.



Fitting rotates independently of the conduit to act as a rotating joint within constantly moving applications.

Technical section

Chemical resistance

Chemical resistance comparison table

Chemicals																**Products**
Key: 2 = Suitable 1 = Limited suitability 0 = Unsuitable – = No data	**PA, PR , PADL, SN**	**PI, PF**	**CP**	**KF, RF, SP**	**PP**	**PK**	**Fittings PA66**	**ATS Elastomer Seal**	**S (including braid)**	**SS (including braid)**	**LFH-SP**	**SPL, SPUL**	**SPLHC**	**TC braid**	**Fittings nickel plated brass**
Astm no.1	2	2	2	0	2	2	2	2	2	2	0	2	2	2	2
Astm no.2	2	2	2	0	2	2	2	2	2	2	1	2	1	2	2
Astm no.3	2	2	2	0	1	2	2	2	2	2	1	2	1	2	2
Acetic Acid (10%)	1	1	2	1	2	2	1	1	0	2	2	2	2	1	2
Acetone	2	2	1	0	2	2	2	1	2	2	0	0	2	2	2
Aluminium Chloride	1	2	0	1	2	2	1	2	0	1	2	2	2	1	-
Aniline	1	0	0	0	2	1	1	0	2	2	1	0	2	2	2
Benzaldehyde	1	1	1	0	1	2	1	1	2	2	0	0	1	2	2
Benzene	2	2	1	0	1	2	2	1	2	2	0	0	0	2	2
Carbon tetrachloride	2	2	0	1	1	2	2	1	2	2	0	1	1	2	2
Chlorine Water	0	0	1	0	1	0	0	0	0	0	1	0	2	0	2
Chloroform	0	0	0	0	1	2	0	1	2	2	0	0	1	2	2
Citric acid	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Copper sulphate	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2
Cresol	0	0	-	1	2	1	0	0	2	2	0	1	2	1	2
Diesel oil	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2
Diethylamine	2	1	1	1	2	2	2	0	2	2	2	1	2	2	2
Ethanol	2	1	2	0	2	2	2	1	2	2	1	0	2	2	2
Ether	2	2	-	1	2	2	2	2	2	2	0	1	2	2	2
Ethylamine	2	1	-	1	2	2	2	0	2	2	1	1	1	2	2
Ethylene Glycol	2	2	2	1	2	2	2	2	0	2	2	1	2	2	2
Ethyl ethanoate	1	2	2	0	2	2	1	0	2	2	0	0	2	2	2
Freon 32	2	2	2	1	2	2	2	1	0	2	0	1	0	2	2
Hydrchloric acid (10%)	0	1	1	2	2	2	0	1	0	0	0	2	2	0	2
Hydrchloric acid (36%)	0	0	0	1	2	2	0	0	0	0	0	2	2	0	2
Hydrogen peroxide (35%)	1	1	1	2	2	2	1	0	0	2	1	2	1	2	2
Hydrogen peroxide (87%)	0	0	0	2	1	2	0	0	0	2	0	2	0	1	2
Lactic acid	1	2	0	1	2	2	1	2	0	2	2	1	1	2	2
Lubricating oil	2	2	2	1	2	2	2	2	2	2	1	2	1	2	2
Methanol	1	1	2	0	2	2	1	1	2	2	1	0	2	2	2
Methyl bromide	0	0	-	0	1	2	0	0	2	2	0	0	1	2	2
MEK	2	2	2	1	0	2	2	2	1	2	2	0	0	2	2
Nitric acid (10%)	0	0	1	2	2	2	0	0	0	0	2	2	2	0	2
Nitric acid (70%)	0	0	0	2	2	0	0	0	0	0	0	2	2	0	2
Oxalic acid	1	2	1	1	2	2	1	1	0	2	2	2	2	1	2
Ozone (gas)	0	0	-	1	1	2	0	2	0	2	2	1	1	2	2
Paraffin oil	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2
Petrol	2	2	2	0	2	2	2	2	2	2	0	2	2	2	2
Phenol	0	0	0	1	0	1	0	1	2	2	0	1	2	1	2

—

Chemical resistance comparison table

Chemicals															**Products**
Key: 2 = Suitable 1 = Limited suitability 0 = Unsuitable – = No data	**PA, PR , PADL, SN**	**PI, PF**	**CP**	**KF, RF, SP**	**PP**	**PK**	**Fittings PA66**	**ATS Elastomer Seal**	**S (including braid)**	**SS (including braid)**	**LFH-SP**	**SPL, SPUL**	**SPLHC**	**TC braid**	**Fittings nickel plated brass**
Sea water	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1
Silver nitrate	2	2	-	2	2	2	2	2	0	2	2	2	2	2	2
Skydrol	2	2	2	0	2	2	2	1	2	2	0	0	2	2	2
Sodium chloride	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1
Sodium hydroxide (10%)	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2
Sodium hydroxide (60%)	2	1	0	1	2	2	2	1	0	1	2	2	2	2	2
Sulphur dioxide (gas)	0	0	1	2	2	2	0	0	0	0	1	2	2	1	0
Sulphuric acid (10%)	0	1	2	2	2	2	0	1	0	0	2	2	2	0	0
Sulphuric acid (70%)	0	0	0	2	2	0	0	0	0	0	1	2	2	0	0
Toluene	2	2	1	0	2	2	2	0	2	2	1	0	0	2	2
Transformer oil	2	2	2	1	2	2	2	2	2	2	1	2	1	2	2
1,1,1-Trichloroethane	2	2	1	0	1	2	2	1	0	2	1	0	1	2	2
Trichloroethylene	1	0	0	0	1	2	1	1	0	2	1	0	0	2	2
Turpentine	2	2	2	1	0	2	2	1	2	2	0	1	0	2	2
Vegetable oil	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2
Vinyl acetate	1	2	-	0	2	2	1	0	0	2	0	0	2	2	2
Water	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2
White spirit	2	2	-	1	2	2	2	1	2	2	0	1	1	2	2
Zinc chloride	0	2	1	2	2	2	0	2	0	2	2	2	2	1	2

Note: 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 dependant 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 Adaptaflex for further information.

Technical section

Cable carrying capacity (wire fill)

Introduction

UK Wiring regulations BS7671 recommend that the total cross sectional area of the sum of individual cables shall not exceed 40% of the cross sectional area of the conduit based on using 3 or more cables. The tables below enable youto calculate the number of conductors that can be run within a piece of flexible conduit.

Instructions

- **Step 1:** Establish the number and size of each wire to be run in the conduit
- **Step 2:** Look on the Cross Sectional Area (CSA) chart (table 1), look up the CSA taken up by each of the wires from STEP 1
- **Step 3:** Add all the CSA values together (Total CSA)
- **Step 4:** Look on the conduit fill value chart (table 2).
- Choose a conduit with a 40% fill value higher than the total CSA from STEP 3

Table 1 - Cross Sectional Area (CSA) chart

Nominal conductor size (mm)	Number of wires							
	1	2	3	4	5	10	15	20
1	6.6	13.2	19.8	26.4	33	66	99	132
1.5	7.6	15.2	22.8	30.4	38	76	114	152
2.5	9.6	19.2	28.8	38.4	48	96	144	192
4	14.5	29	43.5	58	72.5	145	217.5	290
6	18.8	37.6	56.4	75.2	94	188	282	376
10	29.3	58.6	87.9	117.2	146.5	293	439.5	586
16	40.2	80.4	120.6	160.8	201	402	603	804
25	63.8	127.6	191.4	255.2	319	638	957	1276
35	83.5	167	250.5	334	417.5	835	1252	1670
50	113	226	339	452	565	1130	1695	2260
70	149	298	447	596	745	1490	2235	-
95	204	408	612	816	1020	2040	-	-

Table 2 - Wire fill of plastic & metallic conduit

Nominal diameter (mm)	Plastic conduit		Metallic conduit	
	100% fill	40% fill	100% fill	40% fill
10	33.2	13	25.5	10.2
13	72.4	29	58.1	23.2
16	109.4	44	83.3	33.3
18	158.4	63	160.6	64.2
21	213.8	86	243.3	97.3
28	369.8	148	452.4	181
34	602.6	241	855.3	342.1
42	973.1	390	1164.2	465.7
54	1698.2	680	1963.5	785.4
80	3520	1410	3473.2	1389.3
106	6500	2600	-	-

Example - What size of conduit to use?

- **Step 1:** 4 x 2.5mm conductors, 2 x 10mm conductors and 3 x 50mm conductors
- **Step 2:** The CSA of Four 2.5mm conductors is 38.4, Two 10mm conductors is 58.6, Three 50mm conductors is 339
- **Step 3:** Total of these groups is 38.4 + 58.6 + 339 = 436
- **Step 4:** Using Table 2 the conduit is either 54mm (680) Plastic or 50mm (465.7) Metallic
- **Note:** 42mm Plastic is 390 which is smaller than 436 therefore not recommended

The information given above relates to PA - Standard weight conduit and Adaptalok fittings or SPL with M-Type fittings.

It is given in good faith and should be used only as a guide in conjunction with the relevant wiring regulations.

Technical section

IEC61386 classifications

Non-metallic & metallic - IEC61386 classifications table

													Products
Non-metallic conduit	**With fitting**	**Compression strength**	**Impact strength**	**Minimum temperature**	**Maximum temperature**	**Bending properties**	**Electrical properties**	**IP rating solids**	**IP rating water**	**Corrosion resistance**	**Tensile strength**	**Non-flame propogating**	**Suspended load capacity**
PA LIGHT	AT	2	4	2	4	4	0	6	7	-	1	1	0
PA STANDARD	AT	2	4	2	4	4	0	6	7	-	1	1	0
PA HEAVY	AT	2	4	2	4	4	0	6	7	-	2	1	0
PF STANDARD	AT	1	3	5	4	4	0	6	7	-	1	1	0
PF HEAVY	AT	2	4	5	4	4	0	6	7	-	1	1	0
PI STANDARD	AT	1	3	5	4	4	0	6	7	-	1	1	0
PI HEAVY	AT	2	4	5	4	4	0	6	7	-	1	1	0
PR	AT	2	4	2	4	4	0	6	7	-	1	1	0
CP	AT	1	4	4	5	4	0	6	7	-	1	1	0
KF LIGHT	KC	2	2	2	1	2	2	4	0	-	1	1	0
KF STANDARD	KC	2	3	2	1	2	2	4	0	-	2	1	0
KF MEDIUM	KC	3	3	2	1	2	2	4	0	-	1	1	0
PK	PK	2	4	5	6	4	2	6	7	-	1	1	0
PKTC	PB	2	4	5	6	4	3	6	7	-	3	1	0
PKSS	PB	2	4	5	6	4	3	6	7	-	3	1	0
PRTC	PB	2	4	2	4	4	1	6	7	-	3	1	0
PRSS	PB	2	4	2	4	4	1	6	7	-	3	1	0
PRSS	PB	2	4	2	4	4	1	6	7	-	3	1	0
Metallic conduit													
S	S	4	4	5	6	4	0	4	0	1	4	1	5
SS	S	4	4	5	6	4	0	4	0	4	4	1	5
SP	SP(M)	4	4	2	2	4	2	6	5	-	4	1	5
SN	SP(M)	4	4	4	5	4	0	6	5	-	4	1	5
LFH-SP	SP(M)	4	4	2	3	4	0	6	5	-	4	1	5
SPL AL	SPL(M)	4	4	2	3	4	2	6	7	-	4	1	5
SPLHC	SPL(M)	4	4	5	5	4	0	6	7	-	4	1	5
SB	SB	4	5	5	6	4	1	4	0	1	4	1	5
STC	SB	4	4	5	6	4	1	4	0	1	4	1	5
SSB	SB	4	4	5	6	4	1	4	0	4	4	1	5
SSBGS	SB	4	4	5	6	4	1	4	0	1	4	1	5
SPB	SPB	4	4	2	2	4	3	5	4	-	4	1	5
SPTC	SPB	4	4	2	2	4	3	5	4	-	4	1	5
SPLHCB	SPLB	4	4	5	5	4	1	6	7	-	5	1	5

Performance classification key

Classification level	**(N)**	**(J)**	**(°C)**	**(°C)**						**(N)**		**(N)**
0						Not declared		0	N/A	Not declared	Not declared	
1	125	0.5	5	60	Rigid	Conductor		1	Low	100	4	20
2	320	1	-5	90	Pliable	Insulator		2	Medium	250	7	30
3	750	2	-15	105	Pliable/ semi rigid	Con/Ins	3	3	Med-hi	500		150
4	1250	6	-25	120	Flexible		4	4	High	1000		450
5	4000	20	-45	150			5	5		2500		850
6				250			6	6				
7								7				

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T211016/BL	7TCA296160R0102	2/60
T211021/BL	7TCA296000R2551	2/60
T211316/BL	7TCA296000R2554	2/60
T211321/BL	7TCA296000R2555	2/60
T211613/BL	7TCA296000R2557	2/60
T211616/BL	7TCA296000R2558	2/60
T211621/BL	7TCA296000R2559	2/60
T212113/BL	7TCA296000R2560	2/60
T212116/BL	7TCA296000R2561	2/60
T212121/BL	7TCA296000R2562	2/60
T281021/BL	7TCA296000R2576	2/60
T281028/BL	7TCA296000R2577	2/60
T281321/BL	7TCA296000R2578	2/60
T281621/BL	7TCA296000R2581	2/60
T281628/BL	7TCA296000R2582	2/60
T282121/BL	7TCA296000R2583	2/60
T282128/BL	7TCA296000R2584	2/60
T282828/BL	7TCA296000R2587	2/60
T341634/BL	7TCA296000R2589	2/60
T342128/BL	7TCA296000R2591	2/60
T342134/BL	7TCA296000R2592	2/60
T343434/BL	7TCA296000R2596	2/60
XF12/30M	7TCA296060R0095	2/54
XF12/M16/D	7TCA296060R0097	2/55
XF16/30M	7TCA296060R0101	2/54
XF16/M16/C90/BL	7TCA296060R0104	2/55
XF16/M16/D	7TCA296060R0105	2/55
XF16/M20/D	7TCA296060R0107	2/55
XF20/30M	7TCA296060R0112	2/54
XF20/M20/C90/BL	7TCA296060R0115	2/55
XF20/M20/D	7TCA296060R0116	2/55
XF25/30M	7TCA296060R0121	2/54
XF25/M25/C90/BL	7TCA296060R0124	2/55
XF25/M25/D	7TCA296060R0125	2/55
XF32/30M	7TCA296060R0131	2/54
XF32/M32/C90/BL	7TCA296060R0134	2/55
XF32/M32/D	7TCA296060R0135	2/55
XF40/30M	7TCA296060R0140	2/54
XF40/M40/D	7TCA296060R0144	2/55
XF50/30M	7TCA296060R0148	2/54
XF50/M50/D	7TCA296060R0151	2/55
Y101010/BL	7TCA296000R2603	2/61
Y101013/BL	7TCA296000R2605	2/61

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Y161310/BL	7TCA296000R2618	2/61
Y161313/BL	7TCA296000R2621	2/61
Y161610/BL	7TCA296000R2623	2/61
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Y211010/BL	7TCA296000R2626	2/61
Y211310/BL	7TCA296000R2627	2/61
Y211313/BL	7TCA296000R2628	2/61
Y211610/BL	7TCA296000R2629	2/61
Y211613/BL	7TCA296000R2630	2/61
Y211616/BL	7TCA296000R2631	2/61
Y212110/BL	7TCA296000R2633	2/61
Y212113/BL	7TCA296000R2635	2/61
Y212116/BL	7TCA296000R2636	2/61
Y282113/BL	7TCA296000R2645	2/61
Y282116/BL	7TCA296000R2646	2/61
Y282121/BL	7TCA296000R2647	2/61
Y282810/BL	7TCA296000R2650	2/61
Y282813/BL	7TCA296000R2651	2/61
Y282816/BL	7TCA296050R0537	2/61
Y282821/BL	7TCA296000R2652	2/61
Y282828/BL	7TCA296000R2653	2/61
Y343416/BL	7TCA296000R2658	2/61
Y343421/BL	7TCA296000R2659	2/61
Y343434/BL	7TCA296000R2661	2/61

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