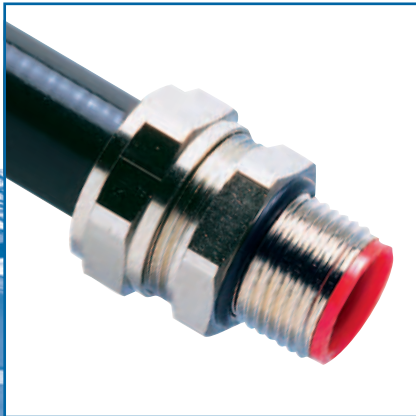




Product Catalogue

Flexible Conduit Systems
for Critical Power & Data Cable Protection

Thomas & Betts

Welcome to Thomas & Betts

At Thomas & Betts, our focus is on improving your business performance by providing practical, reliable electrical products & services. To connect & protect for life. To solve everyday problems in the area's of Wire & Cable Management, Cable Protection, Power Connection & Control and Safety. Our extensive engineering, supply chain management and technical sales support teams are committed to understanding everything that impacts your ability to accomplish your business objectives by reducing your total cost of ownership.

Whether you are designing, installing, operating, maintaining or owning an office building, off-shore platform, hospital, or a high speed train, power generating plant, machine equipment or a manufacturing facility, Thomas & Betts engineered products fit and function in your application while providing superior performance, sustainability, and value throughout the project life cycle.

All our brands are built upon four product & service solution platforms. Platforms that address you or your customers' critical electrical & lighting needs covering the protection of data, energy, processes, assets and personal safety. Beyond hi-performance application characteristics, Thomas & Betts products, information and services facilitate and speed up your time critical assembly, installation or maintenance process.

With a dedicated team, we can support you with a full set of services and flagship product brands.



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Company Overview

Adaptaflex

Established in 1972 Adaptaflex 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 are available throughout a wide range of markets including:

- Commercial contracting
- Machinery
- Rail/Infrastructure
- Marine
- Mechanical
- Security/CCTV
- Data Cabling
- Critical Power

Many components are designed specifically for a market solution. These products uniquely meet an industry's needs - solving a specific application requirement, providing product innovation, saving installation and component costs, improving the quality and the integrity of the end product. Wherever you need mechanical and electrical protection for your cables you can be confident in specifying Adaptaflex products.



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 616386 conduit standard covering the performance characteristics of flexible conduits.
- Lloyds Register of shipping type approval for its non-metallic PR, PK and metallic LFH-SP and SPL products way back in 1995.
- IP69K, 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 BS6583 Class 1A requirement and LUL engineering standard 1-085.

Industry Standards

As one of the world leading flexible conduit system manufacturers, Adaptaflex has gained many international approvals. With company members on leading technical committees and actively looking at international standards, Adaptaflex are able to use our experience and knowledge to ensure safety and quality levels are maintained now and in the future.

Adaptaflex continuously monitor our own quality levels, but we also go that step further by having our products independently tested. As a result you don't have to just take our word for it, in contrast to some other companies our products are certified by independent third party agencies and standards so that you can have every confidence in our products.





Third Party Testing & Approvals

IEC61386 Performance Classification Standard

Adaptaflex has achieved third party accreditation to the IEC 61386 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 this means 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 the proof you need 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.





Construction Applications

Construction Overview

The variety of construction buildings and project requirements within the commercial market is indeed immense. But whatever the challenge you can be sure that Adaptaflex have a solution to meet those specific requirements.

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 in different 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

Approvals & Standards



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 systems
- LFH-SP Liquid resistant covered flexible steel conduit enhanced low fire hazard





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.

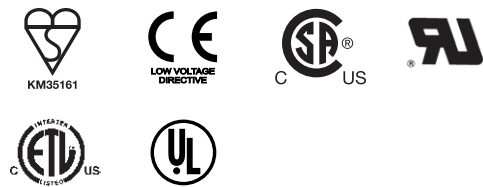
In this hardworking environment of both dynamic and static applications it is essential that any cable management products continue to deliver performance in areas where resistance to oils and chemicals is paramount. Any down time in manufacturing can be very costly so products that can offer high ingress 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

Approvals & Standards



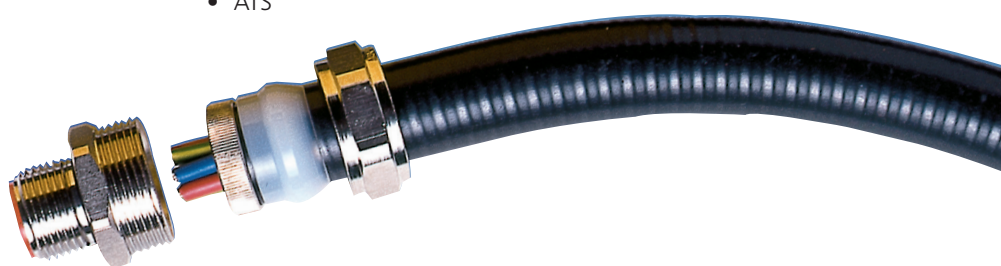
Industry Approved

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
- PA conduit systems
- SPUL for machinery USA export
- Overbraided conduit systems
- ATS
- SPLHC
- PI
- Adapting
- PADL





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 to get the right products to the right place on time and in full.

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 as this sector can be one of the most technically demanding markets. 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
- High impact resistance low temperature flexing
- EMC Protection for safety critical systems
- OEM packages

Approvals & Standards

SIEMENS



Industry Approved

Adaptaflex products are approved by a range of recognised industry standards including:

- LUL 1-085
- NFF16-101/102
- Deutsche Bahn (DIN 5510)
- BS6853
- Siemens Transportation
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive

Product Recommendation

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



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 vastly 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 and which take into consideration minimum environmental impact, corrosion and chemical resistance, 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 IP67/68/69K.

Typical Applications

- Ship / boat Engine Rooms
- Ship and Dock Yards
- Leisure Boats & Cruisers
- Marina Developments
- Ocean Going Craft

Approvals & Standards



Industry Approved

Adaptaflex products are approved by a range of recognised industry standards including:

- Lloyds Register Type Approved
- UR
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive

Product Recommendation

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





Mechanical Applications

Mechanical Overview

The range of applications for Adaptaflex cable and energy management systems is almost limitless. Whenever cable needs protection and wherever cable connections are required you will find that Adaptaflex have the answer, providing superior systems to cable management problems for over 30 years.

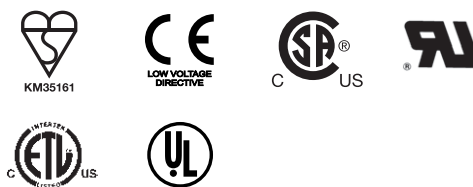
The range of products and variety of materials to choose from are immense. With different materials providing different performance characteristics it is important that you select not only the right product for your particular application but also the right material to give you continued performance where you need it.

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

Approvals & Standards



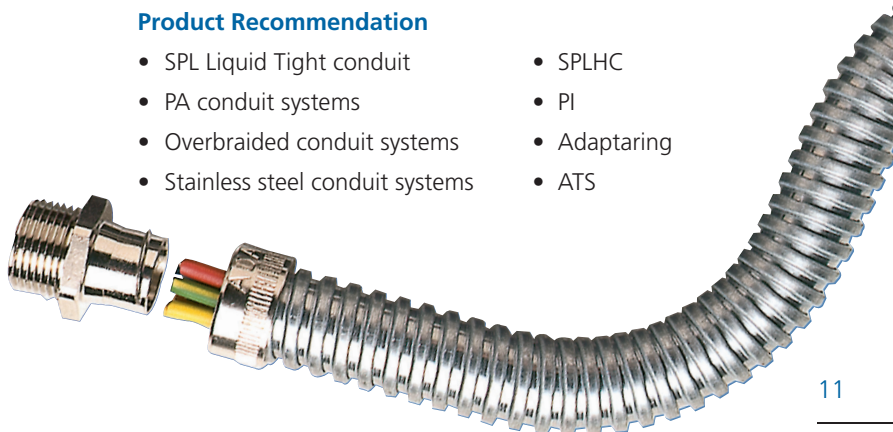
Industry Approved

Adaptaflex products are approved by a range of recognised industry standards including:

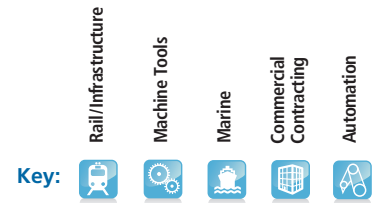
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice
- UL/CSA
- UR

Product Recommendation

- | | |
|-----------------------------------|------------|
| • SPL Liquid Tight conduit | • SPLHC |
| • PA conduit systems | • PI |
| • Overbraided conduit systems | • Adapting |
| • Stainless steel conduit systems | • ATS |



Quick Selection Guide Non-metallic Conduit Systems



Non-metallic Conduit Systems																							
Type	Type PA Lightweight	Type PA Lightweight Slit	Type PA Standard Weight	Type PA Heavyweight	Type PF Standard Weight	Type PF Heavyweight	Type PI Standard Weight	Type PI Heavyweight	Type PR Standard Weight	Type PADL Standard Weight	Type CP Medium Weight	Type KF Lightweight	Type KF Standard Weight	Type KF Heavyweight	Type PP Medium Weight	Type XF Standard Weight	Type RF Standard Weight	Type PK Lightweight	Type PKTC Lightweight	Type PKSS Lightweight	Type PRTC Standard Weight	Type PRSS Standard Weight	
Example																							
Conduit Material	PA6	PA6	PA6	PA6	PA12	PA12	PA11	PA11	PA6	PA6	CPe	PVCu	PVCu	PVCu	PP	PVCu Plasticised PVC	PVCu Plasticised PVC	PK	PK Tinned Copper	PK Tinned Copper	PA6 Tinned Copper	PA6 Stainless Steel	
IP RATING (with appropriate fitting)	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	
Static Temp - Min Max	-40°C +120°C	-40°C +120°C	-40°C +120°C	-40°C +120°C	-50°C +110°C	-50°C +110°C	-50°C +110°C	-50°C +110°C	-40°C +120°C	-40°C +120°C	-45°C +135°C	-5°C +60°C	-5°C +60°C	-5°C +60°C	-20°C +90°C	-5°C +60°C	-20°C +60°C	-60°C +260°C	-60°C +260°C	-60°C +260°C	-40°C +120°C	-40°C +120°C	
UV Resistance	Very High	Very High	Very High	Very High	Very High	Very High	Very High	Very High	Very High	Very High	Very High	High	High	High	Medium	High	High	Very High	Very High	Very High	Very High	Very High	
Flexibility	High	High	High	Medium	Very High	High	Very High	High	High	Medium	Very High	Pliable	Pliable	Pliable	High	Very High	Medium	High	High	High	High	High	
Fatigue Life	High	High	High	Medium	Very High	High	Very High	Very High	Medium	Medium	Very High	Low	Low	Low	Medium	Medium	Medium	High	High	High	Medium	Medium	
Low Fire Hazard			Standard	Standard	Standard	Standard			Enhanced	Standard	Standard							Super	Super	Super	Enhanced	Enhanced	
Halogen Free	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Self Extinguishing	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
EMI Screen																			High	Standard	High	Standard	
High Mechanical Strength																							
High Abrasion Resistance																							
Approvals																							
Key Application																							
Page Number	14	14	14	14	15	15	15	15	16	16	16	37	37	37	39	39	39	46	46	46	47	47	

Non-metallic Systems Conduit, Fittings & Accessories

Range Overview

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

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

Advantages

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

Approvals & Standards



NF
NORME FRANÇAISE

Product Ranges

ADAPTALOK
SYSTEM

HI-SPEC
SYSTEMS

ADAPTARING
SYSTEM

KORFIT
SYSTEM

ADAPTASEAL
SYSTEM

XTRAFLEX
SYSTEM



Adaptaflex ATS™

The ultimate & unique fitting from Adaptaflex - See page 24



Type PA, PF & PI

Non-metallic Conduit

Product Characteristics - To order quote part no, colour & reel length - e.g. PAFL13/BL/50M

Type	Type PA	Type PA	Type PA	Type PA																
Description	Lightweight Conduit	Lightweight Slit Conduit	Standard Weight Conduit	Heavyweight Conduit																
Materials	Polyamide (Nylon) 6 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 6 Colour Black (BL) only	Polyamide (Nylon) 6 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 6 Colour Black (BL) & Grey (GR)																
Example																				
Nominal Conduit Size (mm)	Outside Diameter (mm)	Nw Conduit Size (mm)	Conduit Pitch F = Fine C = Coarse	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	
10	10.0	7.5	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
13	13.0	10.0	F	PAFL13	10.0	25	50	PAFL13-S	10.0	25	50	PAFS10	6.5	15	50	50	PAFH13	9.0	35	50
16	15.8	13.0	F	PAFL16	11.9	35	50	PAFL16-S	11.9	35	50	PAFS13	9.6	25	50	50	PAFH16	11.3	45	50
21	21.2	17.0	F	PAFL21	16.8	45	50	PAFL21-S	16.8	45	50	PAFS16	11.8	35	10, 25, 50	50	—	—	—	—
21	21.2	17.0	C	—	—	—	—	—	—	—	—	PAFS21	16.5	45	10, 25, 50	50	PACH21	14.5	60	50
28	28.5	23.0	F	—	—	—	—	—	—	—	—	PAFS28	22.6	50	10, 25, 50	50a	—	—	—	—
28	28.5	23.0	C	PACL28	22.2	50	50	PACL28-S	22.2	50	50	PACS28	21.7	50	10, 25, 50	50	PACH28	21.3	70	50
34	34.5	29.0	F	—	—	—	—	—	—	—	—	PAFS34	28.8	60	10, 25, 50	50	—	—	—	—
34	34.5	29.0	C	PACL34	27.9	60	50	PACL34-S	27.9	60	50	PACS34	27.7	60	10, 25, 50	50	PACH34	26.8	75	50
42	42.5	36.0	C	PACL42	35.2	65	25	PACL42-S	35.2	65	25	PACS42	35.2	65	10, 25	25	PACH42	34.6	90	25
54	54.5	48.0	C	PACL54	46.9	75	25	PACL54-S	46.9	75	25	PACS54	46.5	75	10, 25	25	PACH54	46.0	95	25
80	79.3	70.0	C	—	—	—	—	—	—	—	—	PACS80	67.0	160	10	10	—	—	—	—
106	106.0	95.0	C	—	—	—	—	—	—	—	—	PACS106	91.5	210	10	10	—	—	—	—
IP Rating with appropriate fitting				For use with following fittings; Adaptalok, ATS, Adapting & Adaptaseal				For use with following fittings; Adapting				For use with following fittings; Adaptalok, ATS, Adapting & Adaptaseal & Jumbo				For use with following fittings; Adaptalok, ATS, Adapting & Adaptaseal				
IP40				Adapting Fittings				n/a				Adapting & Jumbo Fittings				Adapting Fittings				
IP65				n/a				n/a				Jumbo Fittings + SK Seal				n/a				
IP66				Adaptalok, ATS or Adaptaseal Fittings				n/a				Adaptalok, ATS or Adaptaseal Fittings				Adaptalok, ATS or Adaptaseal Fittings				
IP67				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				n/a				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				
IP68				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				n/a				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				
IP69k				n/a				n/a				Adaptalok Fittings + ALS Seal or ATS				n/a				
Temperature Range				Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C				Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C				Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C				Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C				
UV Resistance				Very High				Very High				Very High				Very High				
Flexibility & Fatigue Life				High Flexibility - High Fatigue Life				High Flexibility - High Fatigue Life				High Flexibility - High Fatigue Life				Medium Flexibility - Medium Fatigue Life				
Fire Performance & EMI Screen				Self Extinguishing Halogen Free				Self Extinguishing Halogen Free				Self Extinguishing Halogen Free				Self Extinguishing Halogen Free				
Approvals				   				 				    				    				

14

Type PA, PF & PI

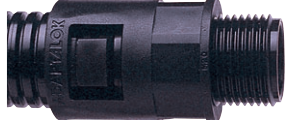
Non-metallic Conduit

Product Characteristics																			
Type	Type PF NEW				Type PF NEW				Type PI				Type PI						
Description	Standard Weight Conduit				Heavyweight Conduit				Standard Weight Conduit				Heavyweight Conduit						
Materials	Modified Polyamide 12 Colour Black (BL) only				Modified Polyamide 12 Colour Black (BL) only				Modified Polyamide 11 Colour Black (BL) & Grey (GR)				Modified Polyamide 11 Colour Black (BL) only						
Example																			
Nominal Conduit Size (mm)	Outside Diameter (mm)	Nw Conduit Size (mm)	Conduit Pitch F = Fine C = Coarse																
				Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)
10	10.0	8.5	F	PFFS10	6.2	20	50	—	—	—	—	PIFS10	6.2	15	50	—	—	—	—
13	13.0	10.0	F	PFFS13	9.9	30	50	PFFH13	9.7	40	50	PIFS13	9.9	25	50	PIFH13	9.7	30	50
16	15.8	13.0	F	PFFS16	11.7	35	50	PFFH16	11.5	45	50	PIFS16	11.7	30	50	PIFH16	11.5	35	50
21	21.2	17.0	F	PFFS21	16.6	40	50	—	—	—	—	PIFS21	16.6	35	50	—	—	—	—
21	21.2	17.0	C	—	—	—	—	PFCH21	15.3	50	50	—	—	—	—	PICH21	15.3	40	50
28	28.5	23.0	C	PFC S28	21.7	50	50	PFCH28	21.5	60	50	PICS28	21.7	45	50	PICH28	21.5	50	50
34	34.5	29.0	C	PFC S34	27.7	60	25	PFCH34	27.5	70	25	PICS34	27.7	55	25	PICH34	27.5	60	25
42	42.5	36.0	C	PFC S42	35.5	65	25	PFCH42	35.5	75	25	PICS42	35.5	60	25	PICH42	35.3	65	25
54	54.5	48.0	C	PFC S54	46.6	75	25	PFCH54	46.4	85	25	PICS54	46.6	70	25	PICH54	46.4	75	25
80	79.3	70.0	C	—	—	—	—	—	—	—	—	PICS80	67.0	160	10	—	—	—	—
106	106.0	95.0	C	—	—	—	—	—	—	—	—	PICS106	91.0	210	10	—	—	—	—
IP Rating with appropriate fitting				For use with following fittings; ATS, Adaptalok & ALS				For use with following fittings; ATS, Adaptalok & ALS				For use with following fittings; Adaptalok, ATS, Adapting & Adaptaseal & Jumbo				For use with following fittings; Adaptalok, ATS, Adapting & Adaptaseal			
IP40				n/a				n/a				Adapting & Jumbo Fittings				Adapting Fittings			
IP65				n/a				n/a				Jumbo Fittings + SK Seal				n/a			
IP66				ATS, Adaptalok				ATS, Adaptalok				Adaptalok, ATS or Adaptaseal Fittings				Adaptalok, ATS or Adaptaseal Fittings			
IP67				ATS, Adaptalok + ALS				ATS, Adaptalok + ALS				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings			
IP68				ATS, Adaptalok + ALS				ATS, Adaptalok + ALS				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings				Adaptalok + ALS Seal or ATS, Adaptaseal Fittings			
IP69k				ATS, Adaptalok + ALS				ATS, Adaptalok + ALS				Adaptalok Fittings + ALS Seal or ATS				n/a			
Temperature Range				Static Applications: -50°C to +110°C Moving Applications: -45°C to +120°C				Static Applications: -50°C to +110°C Moving Applications: -45°C to +120°C				Static Applications: -50°C to +110°C Moving Applications: -45°C to +120°C				Static Applications: -50°C to +110°C Moving Applications: -45°C to +120°C			
UV Resistance				Very High				Very High				Very High				Very High			
Flexibility & Fatigue Life				Very High Flexibility - Very High Fatigue Life				High Flexibility - High Fatigue Life				Very High Flexibility - Very High Fatigue Life				High Flexibility - Very High Fatigue Life			
Fire Performance & EMI Screen				 Self Extinguishing Halogen Free				 Self Extinguishing Halogen Free				 Self Extinguishing Halogen Free				 Self Extinguishing Halogen Free			
Approvals				  NF 				  NF 				  DB 				  DB 			
				NF				NF				NF				NF			

Type PR, PADL & CP

Non-metallic Conduit

Product Characteristics - To order quote part number, colour & reel length - e.g. PRFS13/BL/25M

Type	Type PR	Type CP	Type PADL	Type A - Adaptalok		
Description	Standard Weight Conduit	Medium Weight Conduit	Standard Weight Conduit	Straight Fitting - Fixed External Thread		
Materials	Modified Polyamide (Nylon) 6 Colour Black (BL) only	Polyester Colour Black (BL) only	Modified Polyamide (Nylon) 6 Colour Black (BL) only	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)		
Example						
Outside Diameter (mm)	Part Number	Part Number	Part Number	Nominal Conduit Size (mm)		
NW Conduit Size (mm)	Inside Diameter (mm)	Inside Diameter (mm)	Inside Diameter (mm)	NPT Thread		
Conduit Pitch	Minimum Bend Radius (mm)	Minimum Bend Radius (mm)	Minimum Bend Radius (mm)	Part Number		
F = Fine C = Coarse	Reel Length (m)	Reel Length (m)	Reel Length (m)			
13	PRFS13	CPFM13	—	17	1/2	ALD17/050/A
16	PRFS16	CPFM16	—	22	1/2	ALD22/050/A
17	—	—	PADL17	28	3/4	ALD28/075/A
21	PRFS21	CPFM21	—	34	1	ALD34/100/A
21	PRCS21	—	—	42	1 1/4	ALD42/125/A
22	—	—	PADL22			
28	PRCS28	CPCM28	PADL28			
34	PRCS34	CPCM34	PADL34			
42	PRCS42	CPCM42	PADL42			
54	PRCS54	CPCM54	—			
80	PRCS80	—	—			
106	PRCS106	—	—			
IP Rating with appropriate fitting	For use with following fittings; Adaptalok, ATS, Adapting, Adaptaseal & Jumbo	For use with following fittings; Adaptalok, ATS & Adaptaseal	For use with following fittings; Adaptalok Type ALD & ATS	For use only with PADL conduit, to maintain the UL 1696 approval		
IP40	Adapting & Jumbo Fittings	n/a	n/a			
IP65	Jumbo Fittings + SK Seal	n/a	n/a			
IP66	Adaptalok or Adaptaseal Fittings	Adaptalok or Adaptaseal Fittings	Type ALD or ATS Fittings			
IP67	Adaptalok + ALS Seal or Adaptaseal Fittings	Adaptalok Fittings + ALS Seal & Adaptaseal Fittings	Type ALD + ALS Seal ATS Fittings			
IP68	Adaptalok + ALS Seal or Adaptaseal Fittings	Adaptalok Fittings + ALS Seal & Adaptaseal	Type ALD + ALS Seal ATS Fittings			
IP69k	Adaptalok Fittings + ALS Seal	Adaptalok Fittings + ALS Seal	Type ALD + ALS Seal ATS Fittings			
Temperature Range	Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C	Static Applications: -50°C to +135°C Moving Applications: -25°C to +150°C	Static Applications: -40°C to +120°C Moving Applications: -18°C to +120°C			
UV Resistance	Very High	Very High	Very High			
Flexibility & Fatigue Life	High Flexibility - Medium Fatigue Life	Very High Flexibility - Very High Fatigue Life	Medium Flexibility - Medium Fatigue Life			
Fire Performance & EMI Screen						
Approvals	     	   	 			

Type C90 - Adaptalok

90° Elbow Fitting - Fixed External Thread

For insertion into knockouts using a locknut.

Polyamide (Nylon) 66
Colour Black (BL) & Grey (GR)



Nominal Conduit Size (mm)	NPT Thread	Part Number
17	1/2	ALD17/050/C90
22	1/2	ALD22/050/C90
28	3/4	ALD28/075/C90
34	1	ALD34/100/C90
42	1 1/4	ALD42/125/C90

For use only with PADL conduit, to maintain the UL 1696 approval

Note.
Other fittings available. Contact our Sales Office for further details.

Adaptalok

One-piece push-on Liquid Tight IP66 Fittings

Product Characteristics - To order quote part no, colour & reel length - e.g. AL10/M12/A/BL

Type A - Adaptalok

Description

Straight Fitting - Fixed External Thread

For insertion into threaded entries & knockouts. Locknut supplied with METRIC THREAD ONLY.

Materials

Polyamide (Nylon) 66

Colour Black (BL) & Grey (GR)

Example



Type C90 - Adaptalok

90° Elbow Fitting - Fixed External Thread

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY.

Polyamide (Nylon) 66

Colour Black (BL) & Grey (GR)



Nominal Conduit Size (mm)

	Metric Thread	Part Number	PG Thread	Part Number	PF Thread	Part Number	NPT Thread	Part Number
10	M12	AL10/M12/A	PG7	AL10/PG7/A	1/4	AL10/PF025/A	—	—
10	—	—	PG9	AL10/PG9/A	—	—	—	—
13	M16	AL13/M16/A	PG9	AL13/PG9/A	3/8	AL13/PF038/A	3/8	AL13/038/A
13	M20	AL13/M20/A	PG11	AL13/PG11/A	—	—	—	—
13	—	—	PG13.5	AL13/PG13/A	—	—	—	—
16	M16	AL16/M16/A	PG9	AL16/PG9/A	3/8	AL16/PF038/A	3/8	AL16/038/A
16	M20	AL16/M20/A	PG11	AL16/PG11/A	1/2	AL16/PF050/A	1/2	AL16/050/A
16	—	—	PG13.5	AL16/PG13/A	—	—	—	—
16	—	—	PG16	AL16/PG16/A	—	—	—	—
21	M20	AL21/M20/A	PG11	AL21/PG11/A	1/2	AL21/PF050/A	1/2	AL21/050/A
21	—	—	PG13.5	AL21/PG13/A	—	—	—	—
21	M25	AL21/M25/A	PG16	AL21/PG16/A	—	—	—	—
28	M25	AL28/M25/A	PG21	AL28/PG21/A	3/4	AL28/PF075/A	3/4	AL28/075/A
28	M32	AL28/M32/A	—	—	—	—	—	—
34	M32	AL34/M32/A	PG29	AL34/PG29/A	1	AL34/PF100/A	1	AL34/100/A
34	M40	AL34/M40/A	—	—	—	—	—	—
42	M40	AL42/M40/A	PG36	AL42/PG36/A	1 1/4	AL42/PF125/A	1 1/4	AL42/125/A
42	M50	AL42/M50/A	—	—	—	—	—	—
54	M50	AL54/M50/A	PG48	AL54/PG48/A	1 1/2	AL54/PF150/A	1 1/2	AL54/150/A
54	M63	AL54/M63/A	—	—	2	AL54/PF200/A	—	—

	Metric Thread	Part Number	PG Thread	Part Number	PF Thread	Part Number	NPT Thread	Part Number
M12	AL10/M12/C90	PG7	AL10/PG7/C90	—	—	—	—	—
M16	AL13/M16/C90	PG9	AL13/PG9/C90	3/8	AL13/PF038/C90	3/8	AL13/038/C90	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
M16	AL16/M16/C90	PG9	AL16/PG9/C90	3/8	AL16/PF038/C90	3/8	AL16/038/C90	—
M20	AL16/M20/C90	PG11	AL16/PG11/C90	1/2	AL16/PF050/C90	1/2	AL16/050/C90	—
—	—	PG13.5	AL16/PG13/C90	—	—	—	—	—
—	—	—	—	—	—	—	—	—
M20	AL21/M20/C90	PG13.5	AL21/PG13/C90	1/2	AL21/PF050/C90	1/2	AL21/050/C90	—
—	—	PG16	AL21/PG16/C90	—	—	—	—	—
—	—	—	—	—	—	—	—	—
M25	AL28/M25/C90	PG21	AL28/PG21/C90	3/4	AL28/PF075/C90	3/4	AL28/075/C90	—
—	—	—	—	—	—	—	—	—
M32	AL34/M32/C90	PG29	AL34/PG29/C90	1	AL34/PF100/C90	1	AL34/100/C90	—
—	—	—	—	—	—	—	—	—
M40	AL42/M40/C90	PG36	AL42/PG36/C90	1 1/4	AL42/PF125/C90	1 1/4	AL42/125/C90	—
—	—	—	—	—	—	—	—	—
M50	AL54/M50/C90	PG48	AL54/PG48/C90	1 1/2	AL54/PF150/C90	1 1/2	AL54/150/C90	—
M63	AL54/M63/C90	—	—	2	AL54/PF200/C90	2	AL54/200/C90	—

IP Rating with appropriate fitting

IP40

n/a

IP65

n/a

IP66

Type PA, PI, CP & PR conduit

IP67

Type PA, PI, CP & PR conduit + ALS Seal

IP68

Type PA, PI, CP & PR conduit + ALS Seal

IP69k

Type PA, PI, CP & PR conduit + ALS Seal

Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

Fitting Characteristics



Approvals



For use with following conduit;

Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C



Adaptalok

One-piece push-on Liquid Tight IP66 Fittings

Product Characteristics - To order quote part no & colour - e.g. AL13/M16/45/GR

Type	Type 45 - Adaptalok				Push-in - Adaptalok		3-Way Coupler		Insert Seal	
Description	45° Elbow Fitting - Fixed External Thread For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY.				Straight - One Piece Coupler Inserts into a 20mm knock-out, panel thickness up to 4mm, no locknut required.		3-Way PA66 Fitting For coupling to corrugated flexible conduit.		IP67/68/69k Insert Seal Suitable for standard weight PA/PI/PR conduit Black or Grey.	
Materials	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)				Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)		Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)		Thermoplastic Elastomer Colour Yellow (Y) only	
Example										
Nominal Conduit Size (mm)	Metric Thread	Part Number	PG Thread	Part Number	Part Number	Nominal Conduit Size Combination	Part Number	Conduit Pitch F = Fine C = Coarse	Part Number	
	13	M16	AL13/M16/45	PG9	AL13/PG9/45	—	13X10X10	AL131010/Y	F	ALS13/F
	16	M16	AL16/M16/45	PG11	AL16/PG11/45	—	—	—	F	ALS16/F
	16	M20	AL16/M20/45	PG13.5	AL16/PG13/45	AL16/KM20/A	16X13X13	AL161313/Y	F	ALS16/F
	21	M20	AL21/M20/45	PG13.5	AL21/PG13/45	AL21/KM20/A	21X16X16	AL211616/Y	F	ALS21/F
	21	—	—	PG16	AL21/PG16/45	—	—	—	F	ALS21/F
	28	M25	AL28/M25/45	PG21	AL28/PG21/45	—	28X21X21	AL282121/Y	C	ALS28/C
	34	M32	AL34/M32/45	PG29	AL34/PG29/45	—	—	—	C	ALS34/C
	42	M40	AL42/M40/45	PG36	AL42/PG36/45	—	—	—	C	ALS42/C
	54	M50	AL54/M50/45	PG48	AL54/PG48/45	—	—	—	C	ALS54/C
54	M63	AL54/M63/45	—	—	—	—	—	C	ALS54/C	
Note. Seal needs to be inserted into the appropriate conduit to upgrade fitting system										
IP Rating with appropriate fitting	For use with following conduit; Type PA, PI, CP & PR				For use with following conduit; Type PA, PI, CP & PR		For use with following conduit; Type PA, PI, CP & PR		For use with following conduit; Adaptalok	
IP40	n/a				n/a		n/a		n/a	
IP65	n/a				n/a		n/a		n/a	
IP66	Type PA, PI, CP & PR conduit				n/a		Type PA, PI, CP & PR conduit		Adaptalok Fittings	
IP67	Type PA, PI, CP & PR conduit + ALS Seal				n/a		Type PA, PI, CP & PR conduit + ALS Seal		Adaptalok Fittings (1.1 bar 35mins)	
IP68	Type PA, PI, CP & PR conduit + ALS Seal				n/a		Type PA, PI, CP & PR conduit + ALS Seal		Adaptalok Fittings (DIN 40050)	
IP69k	Type PA, PI, CP & PR conduit + ALS Seal				n/a		Type PA, PI, CP & PR conduit + ALS Seal			
Temperature Range	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C				Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C		Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C		Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C	
Fitting Characteristics										
Approvals	      				    		      		    	

Adaptalok

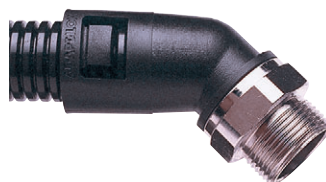
One-piece push-on Liquid Tight IP66 Fittings

Product Characteristics				
Type	Type FL/A - Adaptalok	Type FL/C90 - Adaptalok	Type FL/45 - Adaptalok	Swivel Coupler
Description	Straight Panel Mounting Swivel Flange with integral face seal.	90° Elbow Body - Panel Mount Flange For panel mounting via 2 hole fixing & integral face seal.	45° Panel Mounting Swivel Flange with integral face seal.	Straight PA66 Body - Swivel Coupler For coupling to corrugated flexible conduit.
Materials	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 + Aluminium Colour Black (BL) only
Example				
Nominal Conduit Size (mm)	Part Number	Part Number	Part Number	Part Number
13	—	AL13/FL/C90	—	AL13/A/U/BL
16	AL16/FL/A	AL16/FL/C90	AL16/FL/45	AL16/A/U/BL
21	AL21/FL/A	AL21/FL/C90	AL21/FL/45	AL21/A/U/BL
28	AL28/FL/A	AL28/FL/C90	AL28/FL/45	AL28/A/U/BL
34	—	AL34/FL/90*	—	AL34/A/U/BL
42	—	AL42/FL/90*	—	AL42/A/U/BL
54	AL54/FL/A	AL54/FL/90*	AL54/FL/45	AL54/A/U/BL
*Type FL/90 - Adaptalok 90° Elbow Fitting - Panel Mount Flange For panel mounting via 4 hole fixing & integral face seal. 				
IP Rating with appropriate fitting	For use with following conduit; Type PA, PI, CP & PR	For use with following conduit; Type PA, PI, CP & PR	For use with following conduit; Type PA, PI, CP & PR	For use with following conduit; Type PA, PI, CP & PR
IP40	n/a	n/a	n/a	n/a
IP65	n/a	n/a	n/a	n/a
IP66	Type PA, PI, CP & PR conduit	Type PA, PI, CP & PR conduit	Type PA, PI, CP & PR conduit	Type PA, PI, CP & PR conduit
IP67	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal
IP68	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal
IP69k	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal	Type PA, PI, CP & PR conduit + ALS Seal
Temperature Range	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C
Fitting Characteristics		 ONLY FL/C90		
Approvals	   	   	   	   

Adaptalok

One-piece push-on Liquid Tight IP66 Fittings with Swivel Brass Threads

Product Characteristics - To order quote part no & colour - e.g. AL13/M16/SA/GR

Type	Type SA - Adaptalok	Type CS90 - Adaptalok	Type S45 - Adaptalok									
Description	Straight Fitting - Swivel External Male Thread For insertion into threaded entries & knockouts.	90° Elbow Fitting - Swivel External Male Thread For insertion into threaded entries & knockouts.	45° Elbow Body - Swivel External Male Thread For insertion into threaded entries & knockouts.									
Materials	Polyamide (Nylon) 66 Nickel plated brass thread Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Nickel plated brass thread Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Nickel plated brass thread Colour Black (BL) & Grey (GR)									
Example												
Nominal Conduit Size (mm)	Metric Thread	Part Number	PG Thread	Part Number	Metric Thread	Part Number	PG Thread	Part Number	Metric Thread	Part Number	PG Thread	Part Number
13	M16	AL13/M16/SA/	PG9	AL13/PG9/SA/	M16	AL13/M16/CS90/	PG9	AL13/PG9/CS90/	M16	AL13/M16/S45/	PG9	AL13/PG9/S45/
16	M16	AL16/M16/SA/	PG11	AL16/PG11/SA/	M16	AL16/M16/CS90/	PG11	AL16/PG11/CS90/	M16	AL16/M16/S45/	PG11	AL16/PG11/S45/
21	M20	AL21/M20/SA/	PG13.5	AL21/PG13/SA/	M20	AL21/M20/CS90/	PG13.5	AL21/PG13/CS90/	M20	AL21/M20/S45/	PG13.5	AL21/PG13/S45/
21	—	—	PG16	AL21/PG16/SA/	—	—	PG16	AL21/PG16/CS90/	—	—	PG16	AL21/PG16/S45/
28	M25	AL28/M25/SA/	PG21	AL28/PG21/SA/	M25	AL28/M25/CS90/	PG21	AL28/PG21/CS90/	M25	AL28/M25/S45/	PG21	AL28/PG21/S45/
34	M32	AL34/M32/SA/	PG29	AL34/PG29/SA/	M32	AL34/M32/CS90/	PG29	AL34/PG29/CS90/	M32	AL34/M32/S45/	PG29	AL34/PG29/S45/
42	M40	AL42/M40/SA/	PG36	AL42/PG36/SA/	M40	AL42/M40/CS90/	PG36	AL42/PG36/CS90/	M40	AL42/M40/S45/	PG36	AL42/PG36/S45/
54	M50	AL54/M50/SA/	PG48	AL54/PG48/SA/	M50	AL54/M50/CS90/	PG48	AL54/PG48/CS90/	M50	AL54/M50/S45/	PG48	AL54/PG48/S45/
54	M63	AL54/M63/SA/	—	—	M63	AL54/M63/CS90/	—	—	M63	AL54/M63/S45/	—	—

NPT also available

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

Temperature Range

Fitting Characteristics

Approvals

For use with following conduit;
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

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



For use with following conduit;
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

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



For use with following conduit;
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

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



Adaptalok

One-piece push-on Liquid Tight IP66 Fittings with Swivel Brass Threads

Product Characteristics

Type SFA - Adaptalok

Description Straight Body - Swivel Internal Female Thread
For attachment to external threads & other fittings.

Materials Polyamide (Nylon) 66 Nickel plated brass thread
Colour Black (BL) & Grey (GR)

Example



Nominal Conduit Size (mm)

Metric Thread	Part Number	PG Thread	Part Number
13	M16 AL13/M16/SFA/	PG9	AL13/PG9/SFA/
16	M16 AL16/M16/SFA/	PG11	AL16/PG11/SFA/
21	M20 AL21/M20/SFA/	PG13.5	AL21/PG13/SFA/
21	—	PG16	AL21/PG16/SFA/
28	M25 AL28/M25/SFA/	PG21	AL28/PG21/SFA/
34	M32 AL34/M32/SFA/	PG29	AL34/PG29/SFA/
42	M40 AL42/M40/SFA/	PG36	AL42/PG36/SFA/
54	M50 AL54/M50/SFA/	PG48	AL54/PG48/SFA/
54	M63 AL54/M63/SFA/	—	—

Type CSF90 - Adaptalok

Description 90° Elbow Fitting - Swivel Internal Female Thread
For attachment to external threads & other fittings.

Materials Polyamide (Nylon) 66 Nickel plated brass thread
Colour Black (BL) & Grey (GR)



Metric Thread

Part Number	PG Thread	Part Number
M16 AL13/M16/CSF90/	PG9	AL13/PG9/CSF90/
M16 AL16/M16/CSF90/	PG11	AL16/PG11/CSF90/
M20 AL21/M20/CSF90/	PG13.5	AL21/PG13/CSF90/
—	PG16	AL21/PG16/CSF90/
M25 AL28/M25/CSF90/	PG21	AL28/PG21/CSF90/
M32 AL34/M32/CSF90/	PG29	AL34/PG29/CSF90/
M40 AL42/M40/CSF90/	PG36	AL42/PG36/CSF90/
M50 AL54/M50/CSF90/	PG48	AL54/PG48/CSF90/
—	—	—

Type SF45 - Adaptalok

Description 45° Elbow Body - Swivel Internal Female Thread
For attachment to external threads & other fittings.

Materials Polyamide (Nylon) 66 Nickel plated brass thread
Colour Black (BL) & Grey (GR)



Metric Thread

Part Number	PG Thread	Part Number
M16 AL13/M16/SF45/	PG9	AL13/PG9/SF45/
M16 AL16/M16/SF45/	PG11	AL16/PG11/SF45/
M20 AL21/M20/SF45/	PG13.5	AL21/PG13/SF45/
—	PG16	AL21/PG16/SF45/
M25 AL28/M25/SF45/	PG21	AL28/PG21/SF45/
M32 AL34/M32/SF45/	PG29	AL34/PG29/SF45/
M40 AL42/M40/SF45/	PG36	AL42/PG36/SF45/
M50 AL54/M50/SF45/	PG48	AL54/PG48/SF45/
—	—	—

NPT also available

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit;
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

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



For use with following conduit;
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

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



Adaptalok

UNEF Circular Connector Fittings (MIL C 5015)

Product Characteristics - To order quote part no & insert 000620 - e.g. AL13/U063/A/000620

Type

Description

Materials

Example

Type A - Adaptalok

Straight Body - Swivel Internal Thread

For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium

Colour Black (BL) only



Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number	Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number
13	5/8" - 24	AL13/U063/A/	21	1 1/8" - 18	AL21/U144/A/
13	3/4" - 20	AL13/U075/A/	21	1 3/4" - 18	AL21/U175/A/
13	7/8" - 20	AL13/U088/A/	28	7/8" - 20	AL28/U088/A/
16	5/8" - 24	AL16/U063/A/	28	1 5/8" - 20	AL28/U094/A/
16	3/4" - 20	AL16/U075/A/	28	1" - 20	AL28/U100/A/
16	1 3/8" - 20	AL16/U081/A/	28	1 1/8" - 18	AL28/U119/A/
16	7/8" - 20	AL16/U088/A/	28	1 3/8" - 18	AL28/U138/A/
16	1 5/8" - 20	AL16/U094/A/	28	1 1/8" - 18	AL28/U144/A/
16	1" - 20	AL16/U100/A/	28	1 3/4" - 18	AL28/U175/A/
16	1 1/8" - 18	AL16/U119/A/	28	2" - 16	AL28/U200/A/
16	1 3/8" - 18	AL16/U131/A/	28	2 1/4" - 16	AL28/U225/A/
21	3/4" - 20	AL21/U075/A/	34	1" - 20	AL34/U100/A/
21	7/8" - 20	AL21/U088/A/	34	1 3/8" - 18	AL34/U119/A/
21	1 5/8" - 20	AL21/U094/A/	34	1 1/8" - 18	AL34/U144/A/
21	1" - 20	AL21/U100/A/	34	1 3/4" - 18	AL34/U175/A/
21	1 1/8" - 18	AL21/U113/A/	34	2" - 16	AL34/U200/A/
21	1 3/8" - 18	AL21/U119/A/	42	1 3/4" - 18	AL42/U175/A/
21	1 1/8" - 18	AL21/U131/A/	42	2" - 16	AL42/U200/A/
21	1 3/8" - 18	AL21/U138/A/			

Type C90 - Adaptalok

90° Elbow Body - Swivel Internal Thread

For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium

Colour Black (BL) only



Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number	Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number
13	5/8" - 24	AL13/U063/C90/	21	1 1/8" - 18	AL21/U144/C90/
13	3/4" - 20	AL13/U075/C90/	21	1 3/4" - 18	AL21/U175/C90/
13	7/8" - 20	AL13/U088/C90/	28	7/8" - 20	AL28/U088/C90/
16	5/8" - 24	AL16/U063/C90/	28	1 5/8" - 20	AL28/U094/C90/
16	3/4" - 20	AL16/U075/C90/	28	1" - 20	AL28/U100/C90/
16	1 3/8" - 20	AL16/U081/C90/	28	1 1/8" - 18	AL28/U119/C90/
16	7/8" - 20	AL16/U088/C90/	28	1 3/8" - 18	AL28/U138/C90/
16	1 5/8" - 20	AL16/U094/C90/	28	1 1/8" - 18	AL28/U144/C90/
16	1" - 20	AL16/U100/C90/	28	1 3/4" - 18	AL28/U175/C90/
16	1 1/8" - 18	AL16/U119/C90/	28	2" - 16	AL28/U200/C90/
16	1 3/8" - 18	AL16/U131/C90/	28	2 1/4" - 16	AL28/U225/C90/
21	3/4" - 20	AL21/U075/C90/	34	1" - 20	AL34/U100/C90/
21	7/8" - 20	AL21/U088/C90/	34	1 3/8" - 18	AL34/U119/C90/
21	1 5/8" - 20	AL21/U094/C90/	34	1 1/8" - 18	AL34/U144/C90/
21	1" - 20	AL21/U100/C90/	34	1 3/4" - 18	AL34/U175/C90/
21	1 1/8" - 18	AL21/U113/C90/	34	2" - 16	AL34/U200/C90/
21	1 3/8" - 18	AL21/U119/C90/	42	1 3/4" - 18	AL42/U175/C90/
21	1 1/8" - 18	AL21/U131/C90/	42	2" - 16	AL42/U200/C90/
21	1 3/8" - 18	AL21/U138/C90/			

Type 45 - Adaptalok

45°elbow Body - Swivel Internal Thread

For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium

Colour Black (BL) only



Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number	Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number
13	5/8" - 24	AL13/U063/45/	21	1 1/8" - 18	AL21/U144/45/
13	3/4" - 20	AL13/U075/45/	21	1 3/4" - 18	AL21/U175/45/
13	7/8" - 20	AL13/U088/45/	28	7/8" - 20	AL28/U088/45/
16	5/8" - 24	AL16/U063/45/	28	1 5/8" - 20	AL28/U094/45/
16	3/4" - 20	AL16/U075/45/	28	1" - 20	AL28/U100/45/
16	1 3/8" - 20	AL16/U081/45/	28	1 1/8" - 18	AL28/U119/45/
16	7/8" - 20	AL16/U088/45/	28	1 3/8" - 18	AL28/U138/45/
16	1 5/8" - 20	AL16/U094/45/	28	1 1/8" - 18	AL28/U144/45/
16	1" - 20	AL16/U100/45/	28	1 3/4" - 18	AL28/U175/45/
16	1 1/8" - 18	AL16/U119/45/	28	2" - 16	AL28/U200/45/
16	1 3/8" - 18	AL16/U131/45/	28	2 1/4" - 16	AL28/U225/45/
21	3/4" - 20	AL21/U075/45/	34	1" - 20	AL34/U100/45/
21	7/8" - 20	AL21/U088/45/	34	1 3/8" - 18	AL34/U119/45/
21	1 5/8" - 20	AL21/U094/45/	34	1 1/8" - 18	AL34/U144/45/
21	1" - 20	AL21/U100/45/	34	1 3/4" - 18	AL34/U175/45/
21	1 1/8" - 18	AL21/U113/45/	34	2" - 16	AL34/U200/45/
21	1 3/8" - 18	AL21/U119/45/	42	1 3/4" - 18	AL42/U175/45/
21	1 1/8" - 18	AL21/U131/45/	42	2" - 16	AL42/U200/45/
21	1 3/8" - 18	AL21/U138/45/			

IP Rating with appropriate fitting

- IP40
- IP65
- IP66
- IP67
- IP68
- IP69k

For use with following conduit;
Type PA, PI, CP & PR

- n/a
- n/a
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit + ALS Seal
- Type PA, PI, CP & PR conduit + ALS Seal
- Type PA, PI, CP & PR conduit + ALS Seal

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit;
Type PA, PI, CP & PR

- n/a
- n/a
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit + ALS Seal
- Type PA, PI, CP & PR conduit + ALS Seal
- Type PA, PI, CP & PR conduit + ALS Seal

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



For use with following conduit;
Type PA, PI, CP & PR

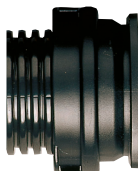
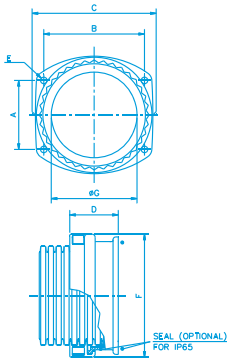
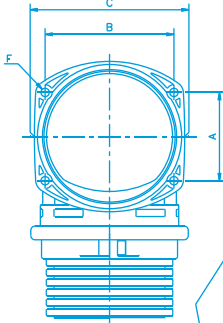
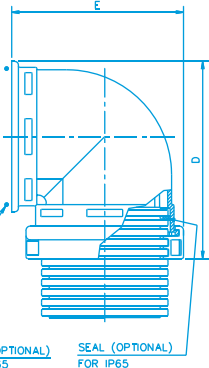
- n/a
- n/a
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit + ALS Seal
- Type PA, PI, CP & PR conduit + ALS Seal
- Type PA, PI, CP & PR conduit + ALS Seal

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



Jumbo Non-Metallic System

Clip Together IP40 Fittings

Product Characteristics			
Type	Type FL/A - Adaptalok	Type FL/90 - Adaptalok	Type SK
Description	Straight Panel Mounting Swivel Flange with integral face seal.	90° Jumbo Flange with integral face seal.	SEALING KIT For use with JUMBO Fittings to achieve IP65. Consists of 2 sealing washers & 'O' rings per kit.
Materials	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Rubber Colour Black (BL) only
Example			
Nominal Conduit Size (mm)	Part Number	Part Number	Part Number
	ADC80/FL/A ADC106/FL/A	ADC80/FL/90 ADC106/FL/90	SK80 SK106
Nominal Size (mm)	part number ADC80/FL/A	part number ADC106/FL/A	
	A 60.0 74.0 B 80.0 108.0 C 98.0 126.0 D 52.5 52.5 E Ø 7.0 7.0 F 106.0 132.0		 
IP Rating with appropriate fitting	For use with following conduit; Type PA, PI & PR JUMBO only		For use with following conduit; Type PA, PI & PR JUMBO only
	Type PA, PI & PR JUMBO conduit		Type PA, PI & PR JUMBO conduit
Temperature Range	Type PA, PI & PI JUMBO conduit + SK Seal		Type PA, PI & PI JUMBO conduit + SK Seal
	n/a		n/a
Fitting Characteristics	n/a		n/a
	n/a		n/a
Approvals	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C		Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C
			

The Unique and Ultimate new non metallic conduit system... Adaptalok ATS™ from Adaptaflex

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.

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.

Key Features

Integral Face Seal Washer -
guaranteed fit, cannot be lost
or fitted incorrectly.
No assembly

High Visibility Elastomer -
3 visible confirmation points

Internal Elastomer Conduit
Seal - guaranteed fit, cannot
be lost or fitted incorrectly.
No Assembly & protects cables

Thread Data -
thread size clearly
indicated on fitting thread

Conduit Data -
conduit size clearly
indicated on fitting

Proven Clip Design -
pitch independent, ensures
secure fitment to coarse &
fine pitch conduits

Visual Fitting Guides -
highly visible elastomer
markings on lugs, aids
correct fitment

Additional Key Features

- Nylon 6.6 Body
- IP66, 67, 68 & 69k performance as standard

- One piece fitting, no customer assembly
- UL 1696 version - Light Blue Elastomer

Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT21/M20/C90/BLY

Type A - Adaptalok ATS™

Description

Straight Fitting - Fixed External Thread

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Materials

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR). Yellow (Y) Elastomer

Example



Nominal Conduit Size (mm)

	Metric Thread	Part Number	PF Thread	Part Number	NPT Thread	Part Number
13	M16	AT13/M16/A	3/8	AT13/PF038/A	3/8	AT13/038/A
16	M16	AT16/M16/A	3/8	AT16/PF038/A	3/8	AT16/038/A
16	M20	AT16/M20/A	1/2	AT16/PF050/A	1/2	AT16/050/A
21	M20	AT21/M20/A	1/2	AT21/PF050/A	1/2	AT21/050/A
21	M25	AT21/M25/A	—	—	—	—
28	M25	AT28/M25/A	3/4	AT28/PF075/A	3/4	AT28/075/A
28	M32	AT28/M32/A	—	—	—	—
34	M32	AT34/M32/A	1	AT34/PF100/A	1	AT34/100/A
34	M40	AT34/M40/A	—	—	—	—
42	M40	AT42/M40/A	1 1/4	AT42/PF125/A	1 1/4	AT42/125/A
42	M50	AT42/M50/A	—	—	—	—
48	M50	AT48/M50/A	1 1/2	AT48/PF150/A	1 1/2	AT48/150/A
54	M50	AT54/M50/A	—	—	—	—
54	M63	AT54/M63/A	2	AT54/PF200/A	2	AT54/200/A

Type A - Adaptalok ATS™

Straight Fitting - Fixed External Thread

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR). Blue (B) Elastomer



Metric Thread	Part Number	NPT Thread	Part Number
M16	AT13/M16/A	3/8	AT13/038/A
M16	AT16/M16/A	3/8	AT16/038/A
M20	AT16/M20/A	1/2	AT16/050/A
M20	AT21/M20/A	1/2	AT21/050/A
M25	AT21/M25/A	—	—
M25	AT28/M25/A	3/4	AT28/075/A
M32	AT28/M32/A	—	—
M32	AT34/M32/A	1	AT34/100/A
M40	AT34/M40/A	—	—
M40	AT42/M40/A	1 1/4	AT42/125/A
M50	AT42/M50/A	—	—
M50	AT48/M50/A	1 1/2	AT48/150/A
M50	AT54/M50/A	—	—
M63	AT54/M63/A	2	AT54/200/A

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with appropriate fitting

IP66

IP67

IP68

IP69k

For use with following conduit;

Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

Fitting Characteristics

Approvals



For use with following conduit;

Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C



Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT21/M20/C90/BLY

Type Type C90 - Adaptalok ATS™
Description 90° Elbow Fitting - Fixed External Thread
 For insertion into knockouts using a locknut.
 Locknut supplied with METRIC thread
Materials Polyamide (Nylon) 66/TPE
 Body Colour Black (BL) & Grey (GR). Yellow (Y) Elastomer

Example



Nominal Conduit Size (mm)	Metric Thread		PF Thread		NPT Thread	
	Metric Thread	Part Number	PF Thread	Part Number	NPT Thread	Part Number
13	M16	AT13/M16/C90	3/8	AT13/PF038/C90	3/8	AT13/038/C90
16	M16	AT16/M16/C90	3/8	AT16/PF038/C90	3/8	AT16/038/C90
16	M20	AT16/M20/C90	1/2	AT16/PF050/C90	1/2	AT16/050/C90
21	M20	AT21/M20/C90	1/2	AT21/PF050/C90	1/2	AT21/050/C90
28	M25	AT28/M25/C90	3/4	AT28/PF075/C90	3/4	AT28/075/C90
34	M32	AT34/M32/C90	1	AT34/PF100/C90	1	AT34/100/C90
42	M40	AT42/M40/C90	1 1/4	AT42/PF125/C90	1 1/4	AT42/125/C90
48	M50	AT48/M50/C90	1 1/2	AT48/PF150/C90	1 1/2	AT48/150/C90
54	M50	AT54/M50/C90	1 1/2	AT54/PF150/C90	1 1/2	AT54/150/C90
54	M63	AT54/M63/C90	2	AT54/PF200/C90	2	AT54/200/C90

Type C90 - Adaptalok ATS™
Description 90° Elbow Fitting - Fixed External Thread
 For insertion into knockouts using a locknut.
 Locknut supplied with METRIC thread
Materials Polyamide (Nylon) 66/TPE
 Body Colour Black (BL) & Grey (GR). Blue (B) Elastomer



Nominal Conduit Size (mm)	Metric Thread		PF Thread		NPT Thread	
	Metric Thread	Part Number	PF Thread	Part Number	NPT Thread	Part Number
13	M16	AT13/M16/C90	3/8	AT13/PF038/C90	3/8	AT13/038/C90
16	M16	AT16/M16/C90	3/8	AT16/PF038/C90	3/8	AT16/038/C90
16	M20	AT16/M20/C90	1/2	AT16/PF050/C90	1/2	AT16/050/C90
21	M20	AT21/M20/C90	1/2	AT21/PF050/C90	1/2	AT21/050/C90
28	M25	AT28/M25/C90	3/4	AT28/PF075/C90	3/4	AT28/075/C90
34	M32	AT34/M32/C90	1	AT34/PF100/C90	1	AT34/100/C90
42	M40	AT42/M40/C90	1 1/4	AT42/PF125/C90	1 1/4	AT42/125/C90
48	M50	AT48/M50/C90	1 1/2	AT48/PF150/C90	1 1/2	AT48/150/C90
54	M50	AT54/M50/C90	1 1/2	AT54/PF150/C90	1 1/2	AT54/150/C90
54	M63	AT54/M63/C90	2	AT54/PF200/C90	2	AT54/200/C90

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with appropriate fitting

IP66
IP67
IP68
IP69k

For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
 Yes
 Yes (4 bar 30 mins)
 Yes

Temperature Range

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

Fitting Characteristics

Approvals



For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
 Yes
 Yes (4 bar 30 mins)
 Yes

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



Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT54/M63/45/BLB

Type

Type 45 - Adaptalok ATS™

Description

45° Elbow Fitting - Fixed External Thread

For insertion into knockouts using a locknut.
Locknut supplied with METRIC thread

Materials

Polyamide (Nylon) 66/TPE
Body Colour Black (BL) & Grey (GR). Yellow (Y) Elastomer

Example



Nominal Conduit
Size (mm)

	Metric Thread			PF Thread			NPT Thread	
	Part Number		Part Number	Part Number		Part Number	Part Number	
13	M16	AT13/M16/45	3/8	AT13/PF038/45	3/8	AT13/038/45		
16	M16	AT16/M16/45	3/8	AT16/PF038/45	3/8	AT16/038/45		
16	M20	AT16/M20/45	1/2	AT16/PF050/45	1/2	AT16/050/45		
21	M20	AT21/M20/45	1/2	AT21/PF050/45	1/2	AT21/050/45		
28	M25	AT28/M25/45	3/4	AT28/PF075/45	3/4	AT28/075/45		
34	M32	AT34/M32/45	1	AT34/PF100/45	1	AT34/100/45		
42	M40	AT42/M40/45	1 1/4	AT42/PF125/45	1 1/4	AT42/125/45		
48	M50	AT48/M50/45	1 1/2	AT48/PF150/45	1 1/2	AT48/150/45		
54	M50	AT54/M50/45	—	—	—	—		

Type 45 - Adaptalok ATS™

45° Elbow Fitting - Fixed External Thread

For insertion into knockouts using a locknut.
Locknut supplied with METRIC thread

Polyamide (Nylon) 66/TPE
Body Colour Black (BL) & Grey (GR). Blue (B) Elastomer



Metric Thread

	Part Number		NPT Thread	Part Number
M16	AT13/M16/45	3/8	AT13/038/45	
M16	AT16/M16/45	3/8	AT16/038/45	
M20	AT16/M20/45	1/2	AT16/050/45	
M20	AT21/M20/45	1/2	AT21/050/45	
M25	AT28/M25/45	3/4	AT28/075/45	
M32	AT34/M32/45	1	AT34/100/45	
M40	AT42/M40/45	1 1/4	AT42/125/45	
M50	AT48/M50/45	1 1/2	AT48/150/45	
M50	AT54/M50/45	—	—	

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with appropriate fitting

IP66

Yes

IP67

Yes

IP68

Yes (4 bar 30 mins)

IP69k

Yes

Temperature Range

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

Fitting Characteristics

Approvals



For use with following conduit; Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

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



Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings with Swivel Brass Threads

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT16/M16/SA/BLY

Type	Type SA - Adaptalok ATS™			
Description	Straight Fitting - Swivel External Male Thread For insertion into threaded entries & knockouts. Order locknuts separately.			
Materials	Polyamide (Nylon) 66 Nickel plated brass thread/TPE Body Colour Black (BL) & Grey (GR). Yellow (Y) & Blue (B) Elastomer			
Example				
Nominal Conduit Size (mm)	Metric Thread		NPT Thread	
	Part Number		Part Number	
13	M16	AT13/M16/SA	3/8	AT13/038/SA
16	M16	AT16/M16/SA	3/8	AT16/038/SA
21	M20	AT21/M20/SA	1/2	AT21/050/SA
28	M25	AT28/M25/SA	3/4	AT28/075/SA
34	M32	AT34/M32/SA	1	AT34/100/SA
42	M40	AT42/M40/SA	1 1/4	AT42/125/SA
48	M50	AT48/M50/SA	1 1/2	AT48/150/SA
54	M50	AT54/M50/SA	1 1/2	AT54/150/SA
54	M63	AT54/M63/SA	2	AT54/200/SA

Type	Type CS90 - Adaptalok ATS™			
Description	90° Elbow Fitting - Swivel External Male Thread For insertion into threaded entries & knockouts. Order locknuts separately.			
Materials	Polyamide (Nylon) 66 Nickel plated brass thread/TPE Body Colour Black (BL) & Grey (GR). Yellow (Y) & Blue (B) Elastomer			
Example				
Nominal Conduit Size (mm)	Metric Thread		NPT Thread	
	Part Number		Part Number	
13	M16	AT13/M16/CS90	3/8	AT13/038/CS90
16	M16	AT16/M16/CS90	3/8	AT16/038/CS90
21	M20	AT21/M20/CS90	1/2	AT21/050/CS90
28	M25	AT28/M25/CS90	3/4	AT28/075/CS90
34	M32	AT34/M32/CS90	1	AT34/100/CS90
42	M40	AT42/M40/CS90	1 1/4	AT42/125/CS90
48	M50	AT48/M50/CS90	1 1/2	AT48/150/CS90
54	M50	AT54/M50/CS90	1 1/2	AT54/150/CS90
54	M63	AT54/M63/CS90	2	AT54/200/CS90

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

NOTE: Special Big Bore & PF/GAS and PG metal threads are available as made to order. Contact us for details

IP Rating with appropriate fitting

IP66
 IP67
 IP68
 IP69k

For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
 Yes
 Yes (4 bar 30 mins)
 Yes

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
 Yes
 Yes (4 bar 30 mins)
 Yes

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



Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings with Swivel Brass Threads

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT54/M63/45/BLB

Type S45 - Adaptalok ATS™

Description

45° Elbow Body - Swivel External Male Thread

For insertion into threaded entries & knockouts.
Order locknuts separately.

Materials Polyamide (Nylon) 66 Nickel plated brass thread/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer

Example



Nominal Conduit Size (mm)

13
16
21
28
34
42
48
54
54

Metric Thread

Part Number

M16 AT13/M16/S45
M16 AT16/M16/S45
M20 AT21/M20/S45
M25 AT28/M25/S45
M32 AT34/M32/S45
M40 AT42/M40/S45
M50 AT48/M50/S45
M50 AT54/M50/S45
M63 AT54/M63/S45

NPT Thread

NPT Thread

3/8 AT13/038/S45
3/8 AT16/038/S45
1/2 AT21/050/S45
3/4 AT28/075/S45
1 AT34/100/S45
1 1/4 AT42/125/S45
1 1/2 AT48/150/S45
1 1/2 AT54/150/S45
2 AT54/200/S45

Type SFA - Adaptalok ATS™

Straight Body - Swivel Internal Female Thread

For attachment to external threads & other fittings.
Order locknuts separately.

Polyamide (Nylon) 66 Nickel plated brass thread/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer



Metric Thread

NPT Thread

M16 AT13/M16/SFA
M16 AT16/M16/SFA
M20 AT21/M20/SFA
M25 AT28/M25/SFA
M32 AT34/M32/SFA
M40 AT42/M40/SFA
M50 AT48/M50/SFA
M50 AT54/M50/SFA
M63 AT54/M63/SFA

NPT Thread

NPT Thread

3/8 AT13/038/SFA
3/8 AT16/038/SFA
1/2 AT21/050/SFA
3/4 AT28/075/SFA
1 AT34/100/SFA
1 1/4 AT42/125/SFA
1 1/2 AT48/150/SFA
— —
2 AT54/200/SFA

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

NOTE: Special Big Bore & PF/GAS and PG metal threads are available as made to order. Contact us for details

IP Rating with appropriate fitting

IP66
IP67
IP68
IP69k

For use with all conduits in this catalogue

Yes
Yes
Yes (4 bar 30 mins)
Yes

Temperature Range

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

Fitting Characteristics



Approvals



For use with all conduits in this catalogue

Yes
Yes
Yes (4 bar 30 mins)
Yes

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



Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings with Swivel Brass Threads

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT16/M16/SA/BLY

Type CSF90 - Adaptalok ATS™

Description **90° Elbow Fitting - Swivel Internal Female Thread**
For attachment to external threads & other fittings.
Order locknuts separately.

Materials Polyamide (Nylon) 66 Nickel plated brass thread/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer

Example



Nominal Conduit Size (mm)

Metric Thread	Part Number	NPT Thread	Part Number
M16	AT13/M16/CSF90	3/8	AT13/038/CSF90
M16	AT16/M16/CSF90	3/8	AT16/038/CSF90
M20	AT21/M20/CSF90	1/2	AT21/050/CSF90
M25	AT28/M25/CSF90	3/4	AT28/075/CSF90
M32	AT34/M32/CSF90	1	AT34/100/CSF90
M40	AT42/M40/CSF90	1 1/4	AT42/125/CSF90
M50	AT48/M50/CSF90	1 1/2	AT48/150/CSF90
M54	AT54/M50/CSF90	—	—
M63	AT54/M63/CSF90	2	AT54/200/CSF90

Type SF45 - Adaptalok ATS™

Description **45° Elbow Body - Swivel Internal Female Thread**
For attachment to external threads & other fittings.
Order locknuts separately.

Materials Polyamide (Nylon) 66 Nickel plated brass thread/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer



Metric Thread	Part Number	NPT Thread	Part Number
M16	AT13/M16/SF45	3/8	AT13/038/SF45
M16	AT16/M16/SF45	3/8	AT16/038/SF45
M20	AT21/M20/SF45	1/2	AT21/050/SF45
M25	AT28/M25/SF45	3/4	AT28/075/SF45
M32	AT34/M32/SF45	1	AT34/100/SF45
M40	AT42/M40/SF45	1 1/4	AT42/125/SF45
M50	AT48/M50/SF45	1 1/2	AT48/150/SF45
M50	AT54/M50/SF45	—	—
M63	AT54/M63/SF45	2	AT54/200/SF45

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

NOTE: Special Big Bore & PF/GAS and PG metal threads are available as made to order. Contact us for details

IP Rating with appropriate fitting

- IP66 Yes
- IP67 Yes
- IP68 Yes (4 bar 30 mins)
- IP69k Yes

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit; Type PA, PI, CP, PR & PADL

- Yes
- Yes
- Yes (4 bar 30 mins)
- Yes

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



Adaptalok ATS™

UNEF Circular Connector Fittings (MIL C 5015)

Product Characteristics

Type SFA - Adaptalok ATS™

Description Straight Body - Swivel Internal Thread
For coupling to UNEF circular connectors.

Materials Polyamide (Nylon) 66 Aluminium/TPE
Body Colour Black (BL) only.
Yellow (Y) & Blue (B) Elastomer

Example



Nominal Conduit Size (mm)	Connector UP Part Thread	Part Number	Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number
13	5/8" - 24	AT13/U063/SFA/	21	1 1/8" - 18	AT21/U144/SFA/
13	3/4" - 20	AT13/U075/SFA/	21	1 1/4" - 18	AT21/U175/SFA/
13	7/8" - 20	AT13/U088/SFA/	28	7/8" - 20	AT28/U088/SFA/
16	5/8" - 24	AT16/U063/SFA/	28	15/16" - 20	AT28/U094/SFA/
16	3/4" - 20	AT16/U075/SFA/	28	1" - 20	AT28/U100/SFA/
16	13/16" - 20	AT16/U081/SFA/	28	1 1/16" - 18	AT28/U119/SFA/
16	7/8" - 20	AT16/U088/SFA/	28	1 1/8" - 18	AT28/U138/SFA/
16	15/16" - 20	AT16/U094/SFA/	28	1 1/4" - 18	AT28/U144/SFA/
16	1" - 20	AT16/U100/SFA/	28	1 3/4" - 18	AT28/U175/SFA/
16	1 1/16" - 18	AT16/U119/SFA/	28	2" - 16	AT28/U200/SFA/
16	1 1/8" - 18	AT16/U131/SFA/	28	2 1/4" - 16	AT28/U225/SFA/
21	3/4" - 20	AT21/U075/SFA/	34	1" - 20	AT34/U100/SFA/
21	7/8" - 20	AT21/U088/SFA/	34	1 1/8" - 18	AT34/U119/SFA/
21	15/16" - 20	AT21/U094/SFA/	34	1 1/4" - 18	AT34/U144/SFA/
21	1" - 20	AT21/U100/SFA/	34	1 3/4" - 18	AT34/U175/SFA/
21	1 1/16" - 18	AT21/U113/SFA/	34	2" - 16	AT34/U200/SFA/
21	1 1/8" - 18	AT21/U119/SFA/	42	1 3/4" - 18	AT42/U175/SFA/
21	1 3/16" - 18	AT21/U131/SFA/	42	2" - 16	AT42/U200/SFA/
21	1 1/2" - 18	AT21/U138/SFA/			

Type CSF90 - Adaptalok ATS™

Description 90° Elbow Body - Swivel Internal Thread
For coupling to UNEF circular connectors.

Materials Polyamide (Nylon) 66 Aluminium/TPE
Body Colour Black (BL) only.
Yellow (Y) & Blue (B) Elastomer



Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number	Nominal Conduit Size (mm)	Connector UNEF Thread	Part Number
13	5/8" - 24	AT13/U063/CSF90/	21	1 1/8" - 18	AT21/U144/CSF90/
13	3/4" - 20	AT13/U075/CSF90/	21	1 1/4" - 18	AT21/U175/CSF90/
13	7/8" - 20	AT13/U088/CSF90/	28	7/8" - 20	AT28/U088/CSF90/
16	5/8" - 24	AT16/U063/CSF90/	28	15/16" - 20	AT28/U094/CSF90/
16	3/4" - 20	AT16/U075/CSF90/	28	1" - 20	AT28/U100/CSF90/
16	13/16" - 20	AT16/U081/CSF90/	28	1 1/16" - 18	AT28/U119/CSF90/
16	7/8" - 20	AT16/U088/CSF90/	28	1 1/8" - 18	AT28/U138/CSF90/
16	15/16" - 20	AT16/U094/CSF90/	28	1 1/4" - 18	AT28/U144/CSF90/
16	1" - 20	AT16/U100/CSF90/	28	1 3/4" - 18	AT28/U175/CSF90/
16	1 1/16" - 18	AT16/U119/CSF90/	28	2" - 16	AT28/U200/CSF90/
16	1 1/8" - 18	AT16/U131/CSF90/	28	2 1/4" - 16	AT28/U225/CSF90/
21	3/4" - 20	AT21/U075/CSF90/	34	1" - 20	AT34/U100/CSF90/
21	7/8" - 20	AT21/U088/CSF90/	34	1 1/8" - 18	AT34/U119/CSF90/
21	15/16" - 20	AT21/U094/CSF90/	34	1 1/4" - 18	AT34/U144/CSF90/
21	1" - 20	AT21/U100/CSF90/	34	1 3/4" - 18	AT34/U175/CSF90/
21	1 1/16" - 18	AT21/U113/CSF90/	34	2" - 16	AT34/U200/CSF90/
21	1 1/8" - 18	AT21/U119/CSF90/	42	1 3/4" - 18	AT42/U175/CSF90/
21	1 3/16" - 18	AT21/U131/CSF90/	42	2" - 16	AT42/U200/CSF90/
21	1 1/2" - 18	AT21/U138/CSF90/			

Add body & elastomer colour to part no. /BLY or /BLB

IP Rating with appropriate fitting

IP66

IP67

IP68

IP69k

For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

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



Adaptalok ATS™

UNEF Circular Connector Fittings (MIL C 5015) and Couplers

Product Characteristics - To order quote part no, body colour & elastomer colour- e.g. AT16/M16/SA/BLY

Type

Type SF45 - Adaptalok ATS™

Description

45° Elbow Body - Swivel Internal Thread

For coupling to UNEF circular connectors.

Materials

Polyamide (Nylon) 66 Aluminium/TPE
Body Colour Black (BL) only.
Yellow (Y) & Blue (B) Elastomer

Example



Nominal Conduit Size (mm)

Connector UNEF Thread

Part Number

13	5/8" - 24	AT13/U063/SF45/
13	3/4" - 20	AT13/U075/SF45/
13	7/8" - 20	AT13/U088/SF45/
16	5/8" - 24	AT16/U063/SF45/
16	3/4" - 20	AT16/U075/SF45/
16	13/16" - 20	AT16/U081/SF45/
16	7/8" - 20	AT16/U088/SF45/
16	15/16" - 20	AT16/U094/SF45/
16	1" - 20	AT16/U100/SF45/
16	1 1/8" - 18	AT16/U119/SF45/
16	1 1/16" - 18	AT16/U131/SF45/
21	3/4" - 20	AT21/U075/SF45/
21	7/8" - 20	AT21/U088/SF45/
21	15/16" - 20	AT21/U094/SF45/
21	1" - 20	AT21/U100/SF45/
21	1 1/8" - 18	AT21/U113/SF45/
21	1 1/16" - 18	AT21/U119/SF45/
21	1 5/16" - 18	AT21/U131/SF45/
21	1 3/8" - 18	AT21/U138/SF45/

Nominal Conduit Size (mm)

Connector UNEF Thread

Part Number

21	1 1/8" - 18	AT21/U144/SF45/
21	1 3/4" - 18	AT21/U175/SF45/
28	7/8" - 20	AT28/U088/SF45/
28	15/16" - 20	AT28/U094/SF45/
28	1" - 20	AT28/U100/SF45/
28	1 1/8" - 18	AT28/U119/SF45/
28	1 1/16" - 18	AT28/U138/SF45/
28	1 1/8" - 18	AT28/U144/SF45/
28	1 3/4" - 18	AT28/U175/SF45/
28	2" - 16	AT28/U200/SF45/
28	2 1/4" - 16	AT28/U225/SF45/
34	1" - 20	AT34/U100/SF45/
34	1 1/8" - 18	AT34/U119/SF45/
34	1 1/16" - 18	AT34/U144/SF45/
34	1 3/4" - 18	AT34/U175/SF45/
34	2" - 16	AT34/U200/SF45/
42	1 3/4" - 18	AT42/U175/SF45/
42	2" - 16	AT42/U200/SF45/

Swivel Coupler

Straight PA66 Body - Swivel Coupler

For coupling to corrugated flexible conduit.

Polyamide (Nylon) 66/TPE
Body Colour Black (BL) only.
Yellow (Y) & Blue (B) Elastomer



Part Number

AT13/A/U
AT16/A/U
AT21/A/U
AT28/A/U
AT34/A/U
AT42/A/U
AT48/A/U
AT54/A/U

Add body & elastomer colour to part no. /BLY or /BLB

Add body & elastomer colour to part no. /BLY or /BLB

IP Rating with appropriate fitting

- IP66
- IP67
- IP68
- IP69k

For use with following conduit;
Type PA, PI, CP, PR & PADL

- Yes
- Yes
- Yes (4 bar 30 mins)
- Yes

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit;
Type PA, PI, CP, PR & PADL

- Yes
- Yes
- Yes (4 bar 30 mins)
- Yes

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



Adaptalok ATS™

One-piece push-on Liquid Tight IP68/69k Fittings

Product Characteristics

Type

Type FL/A - Adaptalok

Description

Straight Panel Mounting Swivel Flange
with integral face seal.

Materials

Polyamide (Nylon) 66/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer

Example



Nominal Conduit
Size (mm)

13
16
21
28
34
42
48
54

Part Number

AT21/FL/A
AT28/FL/A

Type FL/C90 - Adaptalok

90° Elbow Body - Panel Mount Flange
For panel mounting via 2 hole fixing & integral face seal.

Polyamide (Nylon) 66/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer



Part Number

AT13/FL/C90
AT16/FL/C90
AT21/FL/C90
AT28/FL/C90

Type FL/45 - Adaptalok

45° Panel Mounting Swivel Flange
with integral face seal.

Polyamide (Nylon) 66/TPE
Body Colour Black (BL) & Grey (GR).
Yellow (Y) & Blue (B) Elastomer



Part Number

AT16/FL/45
AT21/FL/45
AT28/FL/45
AT54/FL/45

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with appropriate fitting

IP66
IP67
IP68
IP69k

For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
Yes
Yes (4 bar 30 mins)
Yes

Temperature Range

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

Fitting Characteristics



Approvals



For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
Yes
Yes (4 bar 30 mins)
Yes

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



For use with following conduit;
Type PA, PI, CP, PR & PADL

Yes
Yes
Yes (4 bar 30 mins)
Yes

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



Adaptaseal

Liquid Tight Compression Fittings & Accessories

Product Characteristics - To order quote part no & colour - e.g. ASF10/M16/A/BL

Type	Type A - Adaptaseal	Type C90 - Adaptaseal	Type FLC90/FL90 - Adaptaseal									
Description	Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Locknut supplied with METRIC THREAD ONLY	90° Elbow Fitting - Fixed External Thread For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY	90° Elbow Fitting - Panel Mount Flange For panel mounting via 2/4 hole fixing & integral face seal									
Materials	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Colour Black (BL) & Grey (GR)	Polyamide (Nylon) 66 Colour Black (BL) only									
Example												
Nominal Conduit Size (mm) Conduit Pitch F = Fine C = Coarse	Metric Thread	Part Number	PG Thread	Part Number	Metric Thread	Part Number	PG Thread	Part Number	Metric Thread	Part Number	PG Thread	Part Number
	M16	ASF10/M16/A	PG9	ASF10/PG9/A	M16	ASF10/M16/C90	PG9	ASF10/PG9/C90	M16	ASF10/M16/FL/C90	PG9	ASF10/PG9/FL/C90
	M16	ASF13/M16/A	PG9	ASF13/PG9/A	M16	ASF13/M16/C90	PG9	ASF13/PG9/C90	M16	ASF13/M16/FL/C90	PG9	ASF13/PG9/FL/C90
	M16	ASF16/M16/A	PG11	ASF16/PG11/A	M16	ASF16/M16/C90	PG11	ASF16/PG11/C90	M16	ASF16/M16/FL/C90	PG11	ASF16/PG11/FL/C90
	M20	ASF16/M20/A	PG13.5	ASF16/PG13/A	M20	ASF16/M20/C90	PG13.5	ASF16/PG13/C90	M20	ASF16/M20/FL/C90	PG13.5	ASF16/PG13/FL/C90
	M20	ASF21/M20/A	PG16	ASF21/PG16/A	M20	ASF21/M20/C90	PG16	ASF21/PG16/C90	M20	ASF21/M20/FL/C90	PG16	ASF21/PG16/FL/C90
	M20	ASC21/M20/A	PG16	ASC21/PG16/A	M20	ASC21/M20/C90	PG16	ASC21/PG16/C90	M20	ASC21/M20/FL/C90	PG16	ASC21/PG16/FL/C90
	M25	ASF28/M25/A	PG21	ASF28/PG21/A	M25	ASF28/M25/C90	PG21	ASF28/PG21/C90	M25	ASF28/M25/FL/C90	PG21	ASF28/PG21/FL/C90
	M25	ASC28/M25/A	PG21	ASC28/PG21/A	M25	ASC28/M25/C90	PG21	ASC28/PG21/C90	M25	ASC28/M25/FL/C90	PG21	ASC28/PG21/FL/C90
	M32	ASF34/M32/A	PG29	ASF34/PG29/A	M32	ASF34/M32/C90	PG29	ASF34/PG29/C90	M32	ASF34/M32/FL/90*	PG29	ASF34/PG29/FL/90*
	M32	ASC34/M32/A	PG29	ASC34/PG29/A	M32	ASC34/M32/C90	PG29	ASC34/PG29/C90	M32	ASC34/M32/FL/90*	PG29	ASC34/PG29/FL/90*
	M40	ASC42/M40/A	PG36	ASC42/PG36/A	M40	ASC42/M40/C90	PG36	ASC42/PG36/C90	M40	ASC42/M40/FL/90*	PG36	ASC42/PG36/FL/90*
M50	ASC54/M50/A	PG48	ASC54/PG48/A	M50	ASC54/M50/C90	PG48	ASC54/PG48/C90	M50	ASC54/M50/FL/90*	PG48	ASC54/PG48/FL/90*	

PF & NPT thread sizes available

*These sizes are fixed panel mounting - non swivel

PF & NPT thread sizes available

*These sizes are fixed panel mounting - non swivel

IP Rating with appropriate fitting

- IP40
- IP65
- IP66
- IP67
- IP68
- IP69k

Temperature Range
Fitting Characteristics

For use with following conduit;
Type PA, PI, CP & PR

- n/a
- n/a
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit - 2 bar 30 mins
- Type PA, PI, CP & PR conduit

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



For use with following conduit;
Type PA, PI, CP & PR

- n/a
- n/a
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit - 2 bar 30 mins
- Type PA, PI, CP & PR conduit

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



For use with following conduit;
Type PA, PI, CP & PR

- n/a
- n/a
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit
- Type PA, PI, CP & PR conduit - 2 bar 30 mins
- Type PA, PI, CP & PR conduit

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



Approvals

Adaptaseal

Liquid Tight Compression Fittings & Accessories

Product Characteristics

Type

Description

Materials

Example

Type T - Adaptaseal

Inspection T-Piece

For connection to corrugated flexible conduit.

Polyamide (Nylon) 66
Colour Black (BL) only



Metric Thread

Part Number

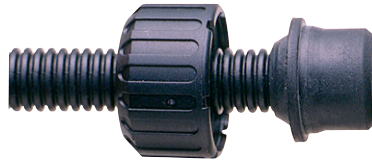
10	F	10	ASF10X3/T
13	F	13	ASF13X3/T
16	F	16	ASF16X3/T
21	F	21	ASF21X3/T
21	C	21	ASC21X3/T
28	F	28	ASF28X3/T
28	C	28	ASC28X3/T
34	F	34	ASF34X3/T
34	C	34	ASC34X3/T

Type RK - Adaptaseal

Reducing Kit

For connection to a reduced conduit size

Polyamide (Nylon) 66 & Neoprene Rubber
Colour Black (BL) only



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

—	—	—	—	—
RK13-10	—	—	—	—
RK16-10	RK16-13	—	—	—
RK21-10	RK21-13	RK21-16	—	—
RK21-10	RK21-13	RK21-16	—	—
—	RK28-13	RK28-16	RK28-21	—
—	RK28-13	RK28-16	RK28-21	—
—	—	—	RK34-21	RK34-28
—	—	—	RK34-21	RK34-28

Type AWB

Anti-Vibration Washer

Prevents fitting loosening under vibration.

Acetal (POM)
Colour Black (BL) only



PART
NUMBER

AWB13
AWB13
AWB16
AWB21
AWB21
AWB28
AWB28
AWB34
AWB34

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;

Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit

n/a

n/a

Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

Fitting Characteristics

Approvals



For use with following conduit;

Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit

n/a

n/a

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C



Adaptating

Freely Rotating Swivel Compression Fittings

Product Characteristics - To order quote part no & colour - e.g. AR13/M16/ABL

Type	Type A - Adaptating				Type C90 - Adaptating		Type T - Adaptating		Type AWB
Description	Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Locknut supplied with METRIC THREAD ONLY				90° elbow Fitting - Fixed External Thread For insertion into knockouts. Locknut supplied with METRIC THREAD ONLY		Rotational Inspection T-Piece For connection to corrugated flexible conduit.		Anti-Vibration Washer Prevents fitting loosening under vibration.
Materials	Polyamide (Nylon) 66 & Acetal (POM) Colour Black (BL) only				Polyamide (Nylon) 66 & Acetal (POM) Colour Black (BL) only		Polyamide (Nylon) 66 & Acetal (POM) Colour Black (BL) only		Acetal (POM) Colour Black (BL) only
Example									
Nominal Conduit Size (mm)	Metric Thread	Part Number	PG Thread	Part Number	Metric Thread	Part Number	Part Number	Part Number	Part Number
13	M16	AR13/M16/A	PG9	AR13/PG9/A	M13	AR13/M16/C90	AR13X3/T		AWB13
16	M16	AR16/M16/A	PG11	AR16/PG11/A	M16	AR16/M16/C90	—		—
16	M20	AR16/M20/A	PG13.5	AR16/PG13/A	M20	AR16/M20/C90	AR16X3/T		AWB16
21	M20	AR21/M20/A	PG16	AR21/PG16/A	M20	AR21/M20/C90	AR21X3/T		AWB21
28	M25	AR28/M25/A	PG21	AR28/PG21/A	M25	AR28/M25/C90	AR28X3/T		AWB28
34	M32	AR34/M32/A	PG29	AR34/PG29/A	M32	AR34/M32/C90	AR34X3/T		AWB34
42	M42	AR42/M40/A	PG36	AR42/PG36/A	M40	AR42/M40/C90	—		—
54	M50	AR54/M50/A	PG48	AR54/PG48/A	M50	AR54/M50/C90	—		—

PF & NPT thread sizes available

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

For use with following fittings;
Type PA, PI, CP & PR

Type PA, PI, CP & PR conduit

n/a

n/a

n/a

n/a

n/a

Temperature Range

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

Fitting Characteristics



Approvals

For use with following fittings;
Type PA, PI, CP & PR

Type PA, PI, CP & PR conduit

n/a

n/a

n/a

n/a

n/a

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



For use with following fittings;
Type PA, PI, CP & PR

Type PA, PI, CP & PR conduit

n/a

n/a

n/a

n/a

n/a

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



Korifit

Type KF Non-Metallic Conduit & Fittings

Product Characteristics															
Type				Type KF - Korifit				Type KF - Korifit				Type KF - Korifit			
Description				Lightweight Conduit				Standard Weight Conduit				Medium Weight Conduit			
Materials				PVCu Colour Grey (GR) only				PVCu Colour White (W) only				PVCu Colour Black (BL) only			
Example															
Nominal Conduit Size (mm)															
Outside Diameter (mm)															
NW Conduit Size (mm)															
Conduit Pitch F = Fine C = Coarse															
				Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)
16	15.8	13.0	F	KFL16	12.1	25	50	KFS16	11.9	25	50	KFM16	11.9	25	50
20	21.2	17.0	F	KFL20	14.5	30	50	KFS20	14.3	30	50	KFM20	14.3	30	50
25	25.6	22.0	F	KFL25	19.9	40	50	KFS25	19.7	40	50	KFM25	19.7	40	50
IP Rating with appropriate fitting				For use with following fittings; Korifit				For use with following fittings; Korifit				For use with following fittings; Korifit			
IP40				Korifit KC Fittings				Type KC & KF Fittings				Type KC & KF Fittings			
IP65				Korifit KF Fittings				Type KC & KF Fittings				Type KC & KF Fittings			
IP66				n/a				n/a				n/a			
IP67				n/a				n/a				n/a			
IP68				n/a				n/a				n/a			
IP69k				n/a				n/a				n/a			
Temperature Range				Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C				Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C				Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C			
UV Resistance				High				High				High			
Flexibility & Fatigue Life				Pliable - Low Fatigue Life				Pliable - Low Fatigue Life				Pliable - Low Fatigue Life			
Fire Performance & EMI Screen				Self Extinguishing				Self Extinguishing				Self Extinguishing			
Approvals				 				 				 			

Korifit

Type KF Non-Metallic Conduit & Fittings

Product Characteristics - To order quote part no, colour & reel length - e.g. KFS16/W/50M

Type	Type KC/A - Korifit	Type KC/C90 - Korifit	Type KF/A - Korifit	Coupler - Korifit					
Description	Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Locknut supplied.	90°elbowFitting - Fixed External Thread For insertion into knockouts. Locknut supplied.	Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Locknut supplied.	Straight One Piece Coupler For coupling to corrugated flexible conduit.					
Materials	Polyamide (Nylon) Colour Black (BL), Grey (GR) & White (W)	Polyamide (Nylon) Colour Black (BL) only	Polyamide (Nylon) Colour Black (BL) Grey (GR) & White (W)	Polyamide (Nylon) Colour White (W) only					
Example									
Nominal Conduit Size (mm)	Outside Diameter (mm)	NW Conduit Size (mm)	Metric Thread	Part Number	Metric Thread	Part Number	Metric Thread	Part Number	Part Number
			M16	KC16/M16/A	M16	KC16/M16/C90/BL	M16	KF16/M16/A/	—
			M20	KC16/M20/A	—	—	M20	KF16/M20/A/	—
			M20	KC20/M20/A	M20	KC20/M20/C90/BL	M20	KF20/M20/A/	KF2020/
			M25	KC25/M25/A	M25	KC25/M25/C90/BL	M25	KF25/M25/A/	—
IP Rating with appropriate fitting	For use with following conduit; KORIFIT Type KF Type KF conduit n/a n/a n/a n/a n/a n/a	For use with following conduit; KORIFIT Type KF Type KF conduit n/a n/a n/a n/a n/a n/a	For use with following conduit; KORIFIT Type KF n/a Type KF conduit n/a n/a n/a n/a n/a	For use with following conduit; KORIFIT Type KF n/a Type KF conduit n/a n/a n/a n/a n/a					
Temperature Range	Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C		Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C		Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C		Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C		
UV Resistance									
Flexibility & Fatigue Life									
Fitting Characteristics									
Approvals									

Polypropylene & PVCU Flexible

Type PP & XF Non-Metallic Conduit & Fittings

Product Characteristics - To order quote part no & colour - e.g. AL21/M20/PPA/BL

Type	Type PP	Type PPA - Adaptalok	Type XF - Xtraflex	Type RF												
Description	Medium Weight Conduit	Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Locknut supplied.	Standard Weight Conduit	Standard Weight Conduit												
Materials	Polypropylene Colour Black (BL) only	Polypropylene Colour Black (BL) only	PVCu spiral with plasticised PVC covering Colour Black (BL) only	PVCu spiral with plasticised PVC covering Colour Black (BL) & Grey (GR)												
Example																
Nominal Conduit Size (mm)		Metric Thread	Part Number	Part Number												
Outside Diameter (mm)																
NW Conduit Size (mm)		Part Number														
13	13.0	10.0	PPFM13	9.8	5	50	XF12	14.5	10.0	25	30	RF12	14.5	10.0	25	30
16	15.8	13.0	PPFM16	12.1	35	50	XF16	16.5	12.0	30	30	RF16	16.5	12.0	30	10, 30
21	21.2	17.0	PPFM21	16.8	40	50	-	-	-	-	-	-	-	-	-	-
28	28.5	23.0	PPFM28	23.1	60	50	XF20	20.5	16.0	35	30	RF20	20.5	16.0	35	10, 30
34	34.5	29.0	PPFM34	29.1	50	50	XF25	27.5	22.0	50	30	RF25	27.5	22.0	50	10, 30
							XF32	33.5	28.0	60	30	RF32	33.5	28.0	60	10, 30
							XF40	44.0	38.0	80	30					
							XF50	57.5	50.0	105	30					
IP Rating with appropriate fitting		For use with following fittings; Adaptalok Type PPA	For use with following conduit; Type PP	For use with following fittings; Xtraflex	For use with following fittings; Xtraflex											
IP40	n/a	n/a	n/a	n/a	n/a											
IP65	n/a	n/a	n/a	Xtraflex Fittings	n/a											
IP66	Adaptalok Type PPA Fitting	Type PP conduit	n/a	n/a	n/a											
IP67	n/a	n/a	n/a	n/a	Xtraflex Fittings											
IP68	n/a	n/a	n/a	n/a	n/a											
IP69k	n/a	n/a	n/a	n/a	n/a											
Temperature Range	Static Applications: -20°C to +90°C Moving Applications: -5°C to +105°C	Static Applications: -20°C to +90°C Moving Applications: -5°C to +105°C	Static Applications: -5°C to +60°C Moving Applications: -5°C to +60°C	Static Applications: -20°C to +60°C Moving Applications: -5°C to +60°C												
UV Resistance	Medium	High Flexibility - Medium Fatigue Life	High	High												
Flexibility & Fatigue Life			Very High Flexibility - Medium Fatigue Life	Medium Flexibility - Medium Fatigue Life												
Fire Performance & EMI Screen			Self Extinguishing	Self Extinguishing												
Fitting Characteristics																
Approvals																

PVCU Flexible

Type XF & RF Non-Metallic Conduit & Fittings

Product Characteristics - To order quote part no, colour & reel length - e.g. RF12/BL/30M

Type	Type A - Xtraflex		Type C90 - Xtraflex		Type A - RF		Type C90 - RF	
Description	Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Supplied with Locknuts - METRIC THREAD ONLY.		90° Elbow Fitting - Fixed External Thread For insertion into knockouts. Supplied with Locknuts - METRIC THREAD ONLY.		Straight Fitting - Fixed External Thread For insertion into threaded entries & knockouts. Supplied with Locknuts - METRIC THREAD ONLY.		90° Elbow Fitting - Fixed External Thread For insertion into knockouts. Supplied with Locknuts - METRIC THREAD ONLY.	
Materials	Polyamide (Nylon) 66 Colour Black (BL)		Polyamide (Nylon) 66 Colour Black (BL)		Polyamide (Nylon) 66 Colour Black (BL)		Polyamide (Nylon) 66 Colour Black (BL)	
Example								
Nominal Conduit Size (mm)	Metric Thread		Metric Thread		Metric Thread		Metric Thread	
	Part Number		Part Number		Part Number		Part Number	
12	M16	XF12/M16/D	M16	—	M16	RF12/M16/D	M16	—
16	M16	XF16/M16/D	M16	XF16/M16/C90	M16	RF16/M16/D	M16	RF16/M16/C90
16	M20	XF16/M20/D	M20	—	M20	RF16/M20/D	M20	—
20	M20	XF20/M20/D	M20	XF20/M20/C90	M20	RF20/M20/D	M20	RF20/M20/C90
25	M25	XF25/M25/D	M25	XF25/M25/C90	M25	RF25/M25/D	M25	RF25/M25/C90
32	M32	XF32/M32/D	M32	XF32/M32/C90	M32	RF32/M32/D	M32	RF32/M32/C90
40	M40	XF40/M40/D	M40	—	M40	—	M40	—
50	M50	XF50/M50/D	M50	—	M50	—	M50	—

PG, PF & NPT thread sizes available

IP Rating with appropriate fitting

- IP40
- IP65
- IP66
- IP67
- IP68
- IP69k

Temperature Range

UV Resistance

Flexibility & Fatigue Life

Fitting Characteristics

Approvals

For use with following fittings;
XTRAFLEX Type XF

- n/a
- Type XF conduit
- n/a
- n/a
- n/a
- n/a
- n/a

Static Applications: -5°C to +60°C
Moving Applications: -5°C to +60°C



For use with following conduit;
XTRAFLEX Type XF

- n/a
- Type XF conduit
- n/a
- n/a
- n/a
- n/a
- n/a

Static Applications: -5°C to +60°C
Moving Applications: -5°C to +60°C



For use with following fittings;
XTRAFLEX Type RF

- n/a
- n/a
- n/a
- Type RF conduit
- n/a
- n/a
- n/a

Static Applications: -5°C to +60°C
Moving Applications: -5°C to +60°C



For use with following conduit;
XTRAFLEX Type RF

- n/a
- n/a
- n/a
- Type RF conduit
- n/a
- n/a
- n/a

Static Applications: -5°C to +60°C
Moving Applications: -5°C to +60°C



Non Metallic

Locknuts, Clips, End Caps, Sealing Washers, End Sleeves & Removal Tool

Product Characteristics - To order quote part no & colour - e.g. KF16/M16/AW

Type	Type LNP						Type SW				Type AC			
Description	Nylon Locknuts						Thread Sealing Washer - Captive				Conduit Clips with integral lid.			
Materials	Polyamide (Nylon) 6 Colour Black (BL) & Grey (GR)						Rubber - For use with Nylon threaded fittings Colour Black (BL), Yellow (Y) & Blue (B) Nylon - For use with swivel metal threaded fittings Colour Black (BL), Yellow (Y) & Blue (B)				Polyamide (Nylon) 66 Impact Modified Nylon - only ST version Colour Black (BL) & Grey (GR)			
Example														
	Metric Thread	Part Number Black	Part Number Grey	PG Thread	Part Number Black	Part Number Grey	To Fit Thread (Metric)	Part Number	To Fit Thread (NPT & PF)	Part Number (Black Only)	Nominal Conduit Size (mm)	Part Number Black	Part Number Grey	Part Number Impact Modified Black Only
	M12	LNPB/M12	—	PG7	LNPB/PG7	LNPG/PG7	M12	SWM12	3/8"	SW038	10	ACB10	ACG10	—
	M16	LNPB/M16	LNPG/M16	PG9	LNPB/PG9	LNPG/PG9	M16	SWM16	1/2"	SW050	13	ACB13	ACG13	ACB13/ST
	M20	LNPB/M20	LNPG/M20	PG11	LNPB/PG11	LNPG/PG11	M20	SWM20	3/4"	SW075	16	ACB16	ACG16	ACB16/ST
	M25	LNPB/M25	LNPG/M25	PG13	LNPB/PG13	LNPG/PG13	M25	SWM25	1"	SW100	21	ACB21	ACG21	ACB21/ST
	M32	LNPB/M32	LNPG/M32	PG16	LNPB/PG16	LNPG/PG16	M32	SWM32	1 1/4"	SW125	28	ACB28	ACG28	ACB28/ST
	M40	LNPB/M40	LNPG/M40	PG21	LNPB/PG21	LNPG/PG21	M40	SWM40	1 1/2"	SW150	34	ACB34	ACG34	ACB34/ST
	M50	LNPB/M50	LNPG/M50	PG29	LNPB/PG29	LNPG/PG29	M50	SWM50	2"	SW200	42	ACB42	ACG42	ACB42/ST
	M63	LNPB/M63	LNPG/M63	PG36	LNPB/PG36	LNPG/PG36	M63	SWM63			48	ACB48	ACG48	ACB48/ST
				PG42	LNPB/PG42	LNPG/PG42					54	ACB54	ACG54	ACB54/ST
				PG48	LNPB/PG48	LNPG/PG48								
	For metallic locknuts please refer to page 62						To order add suffix to part no. i.e. Rubber Yellow - SWM12Y i.e. Nylon Blue - SWM20NB							

Type	Type GZ		Type EC		Type RT	
Description	End Sleeves For sealing cables to non-metallic conduit		End Caps Provide a smooth finish to prevent any damage to cable when not terminated with a fitting.		Adaptalok Removal Tool To provide easy removal of Adaptalok & ATS Fittings	
Materials	Rubber Colour Black (BL) only		Acetal (POM) Colour Black (BL) only		Polyamide (Nylon) 6 Colour Black (BL) only	
Example						
	Nominal Conduit Size (mm)	Part Number	Nominal Conduit Size (mm)	Part Number	Adaptalok Fitting Size (mm)	Part Number
	13	GZ9	13	ECB13	13	AL13RT
	16	GZ11	16	ECB16	16	AL16RT
	21	GZ13	21	ECB21	21	AL21RT
	28	GZ21	28	ECB28	28	AL28RT
	34	GZ29	34	ECB34	34	AL34RT
	42	GZ36	42	ECB42	42	AL42RT
			48	ECB48	48	AL48RT
			54	ECB54	54	AL54RT

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Non Metallic

Fastlok Adapters & Manifold Boxes - Type FK & Type MB

Product Characteristics -

To order quote part no & colour - e.g. FK20/BL

Type

Type FK - Fastlok Adapter

Description

Straight Fitting

Quick fit, front of panel mounting adapter, into which can be screwed any metric threaded product.

Materials

Polyamide (Nylon) 66

Colour Black (BL) & Grey (GR)

Example



Hole Diameter For Fastlok (mm)

20.5
25.5

To Suit Metric Thread

Part Number

To Suit Metric Thread - Without Seals

M20 FK20/
M25 FK25/

Fastlok adapters use seals to provide an ingress protection level of IP66, 67, 68 and 69k. They are a superior alternative to 'Push-in' type fittings, they provide better protection and are simpler to install and remove. Fastlok provides minimum intrusion into the enclosure space.

Panel Thickness

Can be installed into 3.5mm Panel (max)

IP Rating with appropriate fitting

IP66
IP67
IP68
IP69k

Yes
Yes
Yes (3 bar 30 mins)
Yes

Temperature Range

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

Approvals Pending



Type

Type MB - Manifold Boxes

Description

Multiway Adapters

Non metallic enclosure which can be machined to take upto eight Adaptalok ATS™ fittings (or other devices) in a variety of configurations and sizes. Eg. 'Y', 'T', 'X', 'V' etc. Each box has a removable cover for ease of access. The box seal is moulded, so remains captive for ease of installation.

Materials

Polyamide (Nylon) 66 / TPE

Box Colour Black (BL) & Grey (GR).

Elastomer Colour Yellow (Y), Blue (B)

Example



Box Type

1
2

External Dimensions -Lid (mm) Dia X Height

100 x 40
136 x 55

External Dimensions Fixing lugs (mm)

120
155

Max Threaded Entry Per Face

M20
M32

Part Number

MB21/
MB34/

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 of Fastlok adapters can be used in each entry.

IP Rating with appropriate fitting

IP66
IP67
IP68
IP69k

Yes
Yes
Yes (2 bar 30 mins)
Yes

Temperature Range

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

UV Resistance

Very High

Approvals Pending



Non Metallic

Fastlok Adapters & Manifold Boxes Assembly & Configurations

Fastlok Assembly

1. Drill hole into enclosure
2. Insert Fastlok into the hole
3. Tighten left -hand thread to secure to enclosure
4. Screw fitting into Fastlok

Exploded view of Fastlok,
Enclosure & Fitting
Assembly



Fastlok fits quickly and
is secured easily
without the need for
any additional tools



Minimum intrusion
into enclosure

Manifold Boxes - Example Configurations



Non Metallic

Hinged 'T' Pieces

Product Characteristics

Type

Type 'T'

Description

Hinged 'T' Piece

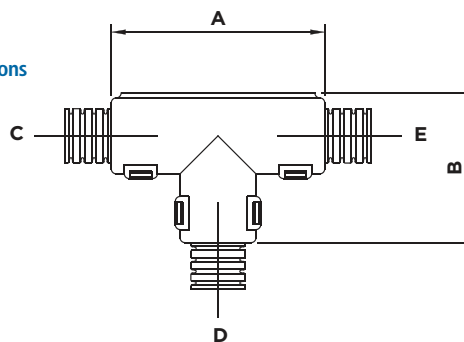
Materials

Polyamide (Nylon) 66
Colour Black (BL) only

Example



External 'T' Piece Dimensions



Part Number	Nominal Dimensions (mm)	Nominal Dimensions (mm)	Nominal Conduit Size	Nominal Conduit Size	Nominal Conduit Size
	A	B	C	D	E
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
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
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
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

Part Number	Nominal Dimensions (mm)	Nominal Dimensions (mm)	Nominal Conduit Size	Nominal Conduit Size	Nominal Conduit Size
	A	B	C	D	E
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
T281021/BL	64.5	48.5	28	10	21
T281028/BL	64.5	48.6	28	10	28
T281128/BL	64.5	48.6	28	11	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
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

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;

Type PA, PI, & PR

Type PA, PI, & PR conduit

n/a

n/a

n/a

n/a

n/a

Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

Fitting Characteristics

Snap Fit

Approvals



Non Metallic

Hinged 'Y' Pieces

Product Characteristics

Type 'Y'

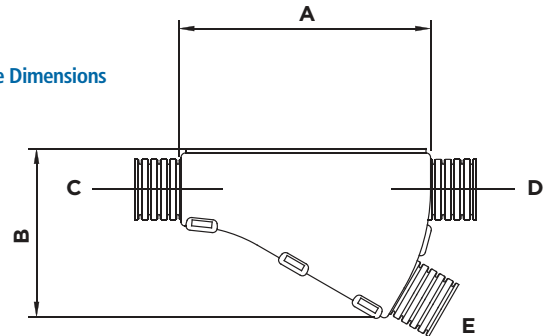
Description Hinged 'Y' Piece

Materials Polyamide (Nylon) 66
Colour Black (BL) only

Example



External 'Y' Piece Dimensions



Part Number	Nominal Dimensions (mm)	Nominal Dimensions (mm)	Nominal Conduit Size	Nominal Conduit Size	Nominal Conduit Size
	A	B	C	D	E
Y101010/BL	54.6	37.1	10	10	10
Y101013/BL	54.6	37.1	10	10	10
Y101210/BL	54.6	37.1	10	10	10
Y131010/BL	54.6	37.1	10	10	10
Y131011/BL	54.6	37.1	10	10	10
Y131310/BL	54.6	37.1	10	10	10
Y131313/BL	54.6	37.1	10	10	10
Y161013/BL	54.9	39.8	10	10	10
Y161310/BL	54.9	39.8	10	10	10
Y161313/BL	54.9	39.8	10	10	10
Y161610/BL	54.9	39.8	10	10	10
Y161613/BL	54.9	39.8	10	10	10
Y211010/BL	42.8	41.0	12	10	10
Y211310/BL	42.8	41.0	12	10	10
Y211313/BL	42.8	41.0	12	10	10
Y211610/BL	48.2	39.8	12	10	10
Y211613/BL	48.2	39.8	12	10	10
Y211616/BL	63.6	47.5	12	10	10

Part Number	Nominal Dimensions (mm)	Nominal Dimensions (mm)	Nominal Conduit Size	Nominal Conduit Size	Nominal Conduit Size
	A	B	C	D	E
Y212110/BL	57.9	44.9	12	12	10
Y212111/BL	57.9	44.9	12	12	10
Y212113/BL	57.9	44.9	12	12	10
Y212116/BL	63.6	47.5	12	12	10
Y282113/BL	54.0	48.8	13	12	10
Y282116/BL	54.0	48.8	13	12	10
Y282121/BL	76.5	60.0	13	11	11
Y282810/BL	67.3	55.9	13	13	10
Y282813/BL	67.3	55.9	13	13	10
Y282816/BL	67.3	55.9	13	13	10
Y282821/BL	76.5	60.0	13	13	12
Y282828/BL	90.7	67.0	13	13	13
Y343416/BL	100.6	75.0	13	13	13
Y343421/BL	100.6	76.0	13	13	13
Y343434/BL	100.6	82.1	13	13	13

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;

Type PA, PI, & PR

Type PA, PI, & PR conduit

n/a

n/a

n/a

n/a

n/a

Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

Fitting Characteristics

Snap Fit

Approvals



Hi-Spec Non Metallic

Type PK, PKTC, PKSS, PRTC & PRSS Specialist Low Fire Hazard, EMI Screen Conduit & Fittings

Product Characteristics - To order quote part no, colour & reel length - e.g. PKFS13/BL/25M

Type	Type PK - Peek	Type A - Peek	Type PKTC	Type PKSS
Description	Unbraided Conduit	Straight Fitting - Fixed External Thread For insertion into knockouts using a locknut.	Super Low Fire Hazard Overbraided	Super Low Fire Hazard Overbraided
Materials	Polyketone Colour Black (BL) only.	Nickel plated brass / Silicone	Polyketone Conduit / Tinned Copper overbraid	Polyketone Conduit / Stainless Steel overbraid
Example				
Nominal Conduit Size (mm)				
Outside Diameter (mm)				
Nw Conduit Size (mm)				
Conduit Pitch F = Fine C = Coarse				
Part Number		Metric Thread Part Number	Type Pkct Part Number	Type Pkss Part Number
Inside Diameter (mm)				
Minimum Bend Radius (mm)				
Reel Length (m)				
13	13.2 10.0 F PKFS13 10.0 35 25, 50	M16 PK13/M16/A 13 14.1 10.0 F	PKFSTC13 10.0 35 25, 50	PKFSSS13 10.0 35 25, 50
16	16.3 13.0 F PKFS16 11.7 45 25, 50	M16 PK16/M16/A 16 17.2 13.0 F	PKFSTC16 11.7 45 25, 50	PKFSSS16 11.7 45 25, 50
21	21.2 17.0 F PKFS21 16.6 60 25, 50	M20 PK21/M20/A 21 23.6 17.0 F	PKFSTC21 16.6 60 25, 50	PKFSSS21 16.6 60 25, 50
28	28.4 23.0 C PKCS28 21.7 65 25, 50	M25 PK28/M25/A 28 30.0 23.0 C	PKCSTC28 21.7 65 25, 50	PKCSSS28 21.7 65 25, 50
34	34.3 29.0 C PKCS34 27.7 80 25, 50	M32 PK34/M32/A 34 36.0 29.0 C	PKCSTC34 27.7 80 25, 50	PKCSSS34 27.7 80 25, 50
IP Rating with appropriate fitting				
IP40	n/a	n/a	n/a	n/a
IP65	n/a	n/a	n/a	n/a
IP66	Type PK Fitting	Type PK conduit	HI-SPEC Type A & B Fitting	HI-SPEC Type A & B Fitting
IP67	Type PK Fitting	Type PK conduit	HI-SPEC Type A & B Fitting	HI-SPEC Type A & B Fitting
IP68	n/a	n/a	n/a	n/a
IP69k	n/a	n/a	n/a	n/a
Temperature Range				
Static Applications:	-60°C to +260°C	-60°C to +260°C	-60°C to +260°C	-60°C to +260°C
Moving Applications:	-45°C to +260°C	-45°C to +260°C	-45°C to +260°C	-45°C to +260°C
UV Resistance	Very High		Very High	Very High
Flexibility & Fatigue Life	High Flexibility - High Fatigue Life		High Flexibility - High Fatigue Life	High Flexibility - High Fatigue Life
Fire Performance & EMI Screen			 	 
Approvals	  	  	  	  

Quick Selection Guide Metallic Conduit Systems



Metallic Conduit Systems

Type	Type S Steel Conduit	Type SS Stainless Steel Conduit	Type SP Liquid Resistant Conduit	Type SN Liquid Resistant Nylon Conduit	Type LFH-SP Low Fire Hazard Conduit	Type SPL Liquid Tight Conduit	Type SPLHC Extreme Temperature Conduit	Type SPUL Csa Approved/UL Listed Conduit	Type SB Steel Braided Conduit	Type STC Steel Tinned Copper Braided Conduit	Type SSB Stainless Steel Braided Conduit	Type SSBGS Stainless Steel Braided Conduit	Type SPB Liquid Resistant Braided Conduit	Type SPTC Liquid Resistant Tinned Copper Braided Conduit	Type SPLHCB Liquid Tight Extreme Temperature Conduit
Example															
Conduit Material	Galvanised Steel	Stainless Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Stainless Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel
Covering/Overbraid			PVC	PA (Nylon)	Polyolefin	PVC	Thermoplastic Rubber	PVC	Galvanised Steel	Tinned Copper	Stainless Steel	Stainless Steel	PVC & Stainless Steel	PVC & Tinned Copper	Rubber & Stainless Steel
IP RATING (with appropriate fitting)	IP40	●	●						●	●	●	●		●	
	IP54			●	●	●							●	●	
	IP65			●	●	●									
	IP66					●	●	●							●
	IP67					●	●	●							●
	IP68					●	●	●							●
	IP69K					●	●	●							●
Static Temp - Min Max	-50°C +300°C	-50°C +350°C	-15°C +70°C	-40°C +120°C	-25°C +90°C	-20°C +105°C	-65°C +135°C	-15°C +75°C	-50°C +300°C	-50°C +300°C	-50°C +300°C	-50°C +300°C	-15°C +70°C	-15°C +70°C	-65°C +135°C
UV Resistance	Very High	Very High	Very High	High	High	Very High	Very High	High	Very High	Very High	Very High	Very High	Very High	Very High	Very High
Flexibility	High	High	High	Medium	High	Medium	Very High	Medium	High	High	High	High	High	High	Very High
Fatigue Life	High	High	Medium	Medium	Medium	Medium	High	Medium	High	High	High	High	Medium	Medium	High
Low Fire Hazard	Inherent	Inherent			Enhanced				Inherent	Inherent	Inherent	Inherent			
Halogen Free	●	●		●	●		●	●	●	●	●	●		●	●
Self Extinguishing			●	●	●	●	●	●					●	●	●
EMI Screen									Enhanced	High	Standard	Standard	Enhanced	High	Standard
High Mechanical Strength	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
High Abrasion Resistance		●							●	●	●	●	●	●	●
Approvals															
Key Application															
Page Number	50	50	52	52	52	55	55	55	58	58	58	58	60	60	61

Metallic Systems Conduit, Fittings & Accessories

Range Overview

Adaptaflex have a choice of fifteen individual metallic conduit systems manufactured either in galvanized steel or stainless steel.

A range of 3 different conduit types provide a solution for liquid resistant specifications with a further 3 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 Listing, NF, LUL and Lloyds Register amongst others.

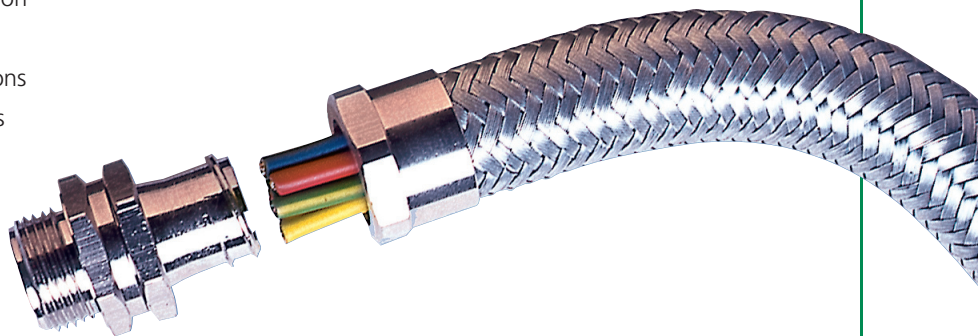
Advantages

- 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

Approvals & Standards



Product Ranges



Adaptasteel

Type S & SS Flexible Steel Conduit & Type S Fittings

Product Characteristics - To order quote part no & reel length - e.g. S10/25M

Type
Description

Materials

Example

Type S

Inherent Low Fire Hazard Steel Conduit

Galvanised Steel - General Purpose



Type SS

Inherent Low Fire Hazard Steel Conduit

Stainless Steel - Corrosion Resistant



Type A

Straight Fitting - Fixed External Thread

For insertion into knockouts using a locknut.

Nickel plated brass



Nominal Conduit Size (mm)
Outside Diameter (mm)

10 9.0
12 13.0
16 16.0
16 16.0
20 20.5
25 25.0
32 32.0
40 42.5
50 53.0
63 62.5
75 77.0

Type S Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m) Type S only
S10	6.8	25	25, 50
S12	10.3	30	10, 25, 50
S16	13.0	35	10, 25, 50
S16	13.0	35	10, 25, 50
S20	16.9	45	10, 25, 50
S25	21.4	55	10, 25, 50
S32	28.1	60	10, 25
S40	37.7	80	10, 25
S50	48.4	90	10, 25
S63	57.5	115	10
S75	70.0	150	10

Type S Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m) Type S only
SS10	6.8	25	25, 50
SS12	10.3	30	25, 50
SS16	13.0	35	10, 25, 50
SS16	13.0	35	10, 25, 50
SS20	16.9	45	10, 25, 50
SS25	21.4	55	10, 25, 50
SS32	28.1	60	10, 25
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Metric Thread	Part Number	PG Thread	Part Number
M12	S10/M12/A	PG7	S10/PG7/A
M16	S12/M16/A	PG9	S12/PG9/A
M16	S16/M16/A	PG11	S16/PG11/A
M20	S16/M20/A	-	-
M20	S20/M20/A	PG16	S20/PG16/A
M25	S25/M25/A	PG21	S25/PG21/A
M32	S32/M32/A	PG29	S32/PG29/A
M40	S40/M40/A	PG36	S40/PG36/A
M50	S50/M50/A	PG42	S50/PG42/A
M63	S63/M63/A	PG48	S63/PG48/A
M75	S75/M75/A	-	-

IP Rating with appropriate fitting

IP40
IP65
IP66
IP67
IP68
IP69k

For use with following fittings;
Type S Fittings

Type S Fittings - Type A, B, F & C

n/a
n/a
n/a
n/a
n/a
n/a

Temperature Range

UV Resistance

Flexibility & Fatigue Life

Fire Performance & EMI Screen

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

Very High

High Flexibility - High Fatigue Life



For use with following fittings;
Type S Fittings

Type S Fittings - Type A, B, F & C

n/a
n/a
n/a
n/a
n/a
n/a

Static Applications: -50°C to +350°C
Moving Applications: -45°C to +250°C

Very High

High Flexibility - High Fatigue Life



For use with following conduit;
Type S & SS

Type S & SS Conduit

n/a
n/a
n/a
n/a
n/a
n/a

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C



Adaptasteel

Type S & SS Flexible Steel Conduit & Type S Fittings

Product Characteristics

Type

Description

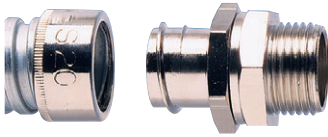
Materials

Example

Type B

Straight Fitting - Swivel External Thread
For insertion into threaded entries & knockouts.

Nickel plated brass



Nominal Conduit Size (mm)
Outside Diameter (mm)

		Metric Thread	Part Number	PG Thread	Part Number
10	9.0	M12	S10/M12/B	PG7	S10/PG7/B
12	13.0	M16	S12/M16/B	PG9	S12/PG9/B
16	16.0	M16	S16/M16/B	PG11	S16/PG11/B
16	16.0	M20	S16/M20/B	—	—
20	20.5	M20	S20/M20/B	PG16	S20/PG16/B
25	25.0	M25	S25/M25/B	PG21	S25/PG21/B
32	32.0	M32	S32/M32/B	PG29	S32/PG29/B
40	42.5	M40	S40/M40/B	PG36	S40/PG36/B
50	53.0	M50	S50/M50/B	PG42	S50/PG42/B
63	62.5	—	—	—	—
75	77.0	—	—	—	—

Type F

Straight Fitting - Fixed Internal Thread
For attachment to external threads & other fittings.

Nickel plated brass



Metric Thread	Part Number
—	—
—	—
—	—
—	—
M20	S20/M20/F
M25	S25/M25/F
M32	S32/M32/F
—	—
—	—
—	—
—	—

Type C

Smooth Entry Bush
For locking conduit into plain holes in enclosures.

Nickel plated brass



Hole Size (mm)	Part Number
9	S10/9/C
12	S12/12/C
16	S16/16/C
16	S16/16/C
20	S20/20/C
25	S25/25/C
32	S32/32/C
40	S40/40/C
51	S50/51/C
61	S63/61/C
75	S75/75/C

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;
Type S & SS

Type S & SS Conduit

n/a

n/a

n/a

n/a

n/a

Temperature Range

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

Fitting Characteristics



Approvals



For use with following conduit;
Type S & SS

Type S & SS Conduit

n/a

n/a

n/a

n/a

n/a

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C



For use with following conduit;
Type S & SS

Type S & SS Conduit

n/a

n/a

n/a

n/a

n/a

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C



Adaptasteel

Type SP, SN & LFH-SP Covered Steel Flexible Conduit & Type SP Fittings

Product Characteristics - To order quote part no, colour & reel length - e.g. SP10/BL/25M

Type	Type SP	Type SN	Type LFH-SP																																																																																																																																				
Description	Liquid Resistant General Purpose Covered Steel Flexible Conduit	Liquid Resistant Abrasion & Solvent Resistant Covered Steel Flexible Conduit	Liquid Resistant Enhanced Low Fire Hazard Covered Steel Flexible Conduit																																																																																																																																				
Materials	PVC Covered Galvanised Steel Colour Black (BL), Grey (GR) & Orange (OR)	PA (Nylon) Covered Galvanised Steel Colour Black (BL) only.	Polyolefin Covered Galvanised Steel Colour Black (BL) only.																																																																																																																																				
Example																																																																																																																																							
Nominal Conduit Size (mm) Outside Diameter (mm)	<table> <tr> <th>Part Number</th><th>Inside Diameter (mm)</th><th>Minimum Bend Radius (mm)</th><th>Reel Length (m) Type S only</th></tr> <tr><td>SP10</td><td>6.8</td><td>25</td><td>25, 50</td></tr> <tr><td>SP12</td><td>10.3</td><td>30</td><td>25, 50</td></tr> <tr><td>SP16</td><td>13.0</td><td>35</td><td>10, 25, 50</td></tr> <tr><td>SP20</td><td>16.9</td><td>45</td><td>10, 25, 50</td></tr> <tr><td>SP25</td><td>21.4</td><td>55</td><td>10, 25, 50</td></tr> <tr><td>SP32</td><td>28.1</td><td>60</td><td>10, 25</td></tr> <tr><td>SP40</td><td>37.7</td><td>80</td><td>10, 25</td></tr> <tr><td>SP50</td><td>48.4</td><td>90</td><td>10, 25</td></tr> <tr><td>SP63</td><td>57.5</td><td>115</td><td>10</td></tr> <tr><td>SP75</td><td>70.0</td><td>150</td><td>10</td></tr> </table>	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m) Type S only	SP10	6.8	25	25, 50	SP12	10.3	30	25, 50	SP16	13.0	35	10, 25, 50	SP20	16.9	45	10, 25, 50	SP25	21.4	55	10, 25, 50	SP32	28.1	60	10, 25	SP40	37.7	80	10, 25	SP50	48.4	90	10, 25	SP63	57.5	115	10	SP75	70.0	150	10	<table> <tr> <th>Part Number</th><th>Inside Diameter (mm)</th><th>Minimum Bend Radius (mm)</th><th>Reel Length (m) Type S only</th></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>SN12</td><td>10.3</td><td>30</td><td>25, 50</td></tr> <tr><td>SN16</td><td>13.0</td><td>35</td><td>25, 50</td></tr> <tr><td>SN20</td><td>16.9</td><td>45</td><td>25, 50</td></tr> <tr><td>SN25</td><td>21.4</td><td>55</td><td>25, 50</td></tr> <tr><td>SN32</td><td>28.1</td><td>60</td><td>25</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </table>	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m) Type S only	—	—	—	—	SN12	10.3	30	25, 50	SN16	13.0	35	25, 50	SN20	16.9	45	25, 50	SN25	21.4	55	25, 50	SN32	28.1	60	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<table> <tr> <th>Part Number</th><th>Inside Diameter (mm)</th><th>Minimum Bend Radius (mm)</th><th>Reel Length (m) Type S only</th></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>LFH-SP12</td><td>10.3</td><td>30</td><td>25, 50</td></tr> <tr><td>LFH-SP16</td><td>13.0</td><td>35</td><td>10, 25, 50</td></tr> <tr><td>LFH-SP20</td><td>16.9</td><td>45</td><td>10, 25, 50</td></tr> <tr><td>LFH-SP25</td><td>21.4</td><td>55</td><td>10, 25, 50</td></tr> <tr><td>LFH-SP32</td><td>28.1</td><td>60</td><td>10, 25</td></tr> <tr><td>LFH-SP40</td><td>37.7</td><td>80</td><td>10, 25</td></tr> <tr><td>LFH-SP50</td><td>48.4</td><td>90</td><td>10, 25</td></tr> <tr><td>LFH-SP63</td><td>57.5</td><td>115</td><td>10</td></tr> <tr><td>LFH-SP75</td><td>70.0</td><td>150</td><td>10</td></tr> </table>	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m) Type S only	—	—	—	—	LFH-SP12	10.3	30	25, 50	LFH-SP16	13.0	35	10, 25, 50	LFH-SP20	16.9	45	10, 25, 50	LFH-SP25	21.4	55	10, 25, 50	LFH-SP32	28.1	60	10, 25	LFH-SP40	37.7	80	10, 25	LFH-SP50	48.4	90	10, 25	LFH-SP63	57.5	115	10	LFH-SP75	70.0	150	10
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IP Rating with appropriate fitting	For use with following fittings; Type SP Fittings IP54 Type SP Fittings - Type A, B, C, E & F IP65 Type SP Fittings - Type M & C90 IP66 n/a IP67 n/a IP68 n/a IP69k n/a	For use with following fittings; Type SP Fittings Type SP Fittings - Type A, B, C, E & F Type SP Fittings - Type M & C90 n/a n/a n/a n/a n/a	For use with following fittings; Type SP Fittings Type SP Fittings - Type A, B, C, E & F Type SP Fittings - Type M & C90 n/a n/a n/a n/a n/a																																																																																																																																				
Temperature Range	Static Applications: -15°C to +70°C Moving Applications: -5°C to +90°C	Static Applications: -40°C to +120°C Moving Applications: -25°C to +150°C	Static Applications: -25°C to +90°C Moving Applications: -5°C to +105°C																																																																																																																																				
UV Resistance	Very High	High	High																																																																																																																																				
Flexibility & Fatigue Life	High Flexibility - Medium Fatigue Life	Medium Flexibility - Medium Fatigue Life	Medium Flexibility - Medium Fatigue Life																																																																																																																																				
Fire Performance & EMI Screen	Self Extinguishing	Self Extinguishing Halogen Free	Enhanced Low Fire Hazard ELFH																																																																																																																																				
Approvals	 	 	    																																																																																																																																				

Adaptasteel

Type SP, SN & LFH-SP Covered Steel Flexible Conduit & Type SP Fittings

Product Characteristics

Type

Description

Materials

Example

Nominal Conduit Size (mm)
Outside Diameter (mm)

Type A

Straight Fitting - Fixed External Thread
For insertion into knockouts using a locknut.

Nickel plated brass



		Metric Thread	Part Number	PG Thread	Part Number
10	10.0	M12	SP10/M12/A	PG7	SP10/PG7/A
12	14.0	M16	SP12/M16/A	PG9	SP12/PG9/A
16	17.0	M16	SP16/M16/A	PG11	SP16/PG11/A
16	17.0	M20	SP16/M20/A	—	—
20	21.5	M20	SP20/M20/A	PG16	SP20/PG16/A
25	26.0	M25	SP25/M25/A	PG21	SP25/PG21/A
32	34.0	M32	SP32/M32/A	PG29	SP32/PG29/A
40	44.5	M40	SP40/M40/A	PG36	SP40/PG36/A
50	55.0	M50	SP50/M50/A	PG42	SP50/PG42/A
63	64.5	M63	SP63/M63/A	PG48	SP63/PG48/A
75	79.0	M75	SP75/M75/A	—	—

Type B

Straight Fitting - Swivel External Thread
For insertion into threaded entries & knockouts.

Nickel plated brass



		Metric Thread	Part Number	PG Thread	Part Number
M12	SP10/M12/B	PG7	SP10/PG7/B		
M16	SP12/M16/B	PG9	SP12/PG9/B		
M16	SP16/M16/B	PG11	SP16/PG11/B		
M20	SP16/M20/B	—	—		
M20	SP20/M20/B	PG16	SP20/PG16/B		
M25	SP25/M25/B	PG21	SP25/PG21/B		
M32	SP32/M32/B	PG29	SP32/PG29/B		
M40	SP40/M40/B	PG36	SP40/PG36/B		
M50	SP50/M50/B	PG42	SP50/PG42/B		
—	—	—	—		
—	—	—	—		

Type C90

90° Combined Fitting & Elbow
with male external thread.

Nickel plated steel



Metric Thread	Part Number
—	—
—	—
M16	SP16/M16/C90
M20	SP16/M20/C90
M20	SP20/M20/C90
M25	SP25/M25/C90
M32	SP32/M32/C90
—	—
—	—
—	—

IP Rating with appropriate fitting

IP54

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;
Type SP, SN & LFH-SP

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

n/a

Temperature Range

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

Fitting Characteristics

Approvals



For use with following conduit;
Type SP, SN & LFH-SP

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

n/a



For use with following conduit;
Type SP, SN & LFH-SP

n/a

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C



Adaptasteel

Type SP, SN & LFH-SP Covered Steel Flexible Conduit & Type SP Fittings

Product Characteristics

Type

Description

Materials

Example

Type M

Straight Swivel Fitting - External Thread

For insertion into threaded entries & knockouts.

Nickel plated brass



Type F

Straight Fitting - Fixed Internal Thread

For attachment to external threads & other fittings.

Nickel plated brass

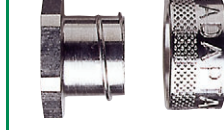


Type C

Smooth Entry Bush

For locking conduit into plain holes in enclosures.

Nickel plated brass

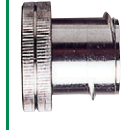


Type E

Conduit Terminator

Cable Protection at exit point

Nickel plated brass



Nominal Conduit Size (mm)
Outside Diameter (mm)

		Metric Thread	Part Number	PG Thread	Part Number	NPT Thread	Part Number
10	10.0	—	—	—	—	—	—
12	14.0	M16	SP12/M16/M	PG9	SP12/PG9/M	—	—
16	17.0	M16	SP16/M16/M	PG11	SP16/PG11/M	3/8	SP16/038/M
16	17.0	M20	SP16/M20/M	PG13.5	SP16/PG13/M	3/8	SP16/038/M
20	21.5	M20	SP20/M20/M	PG16	SP20/PG16/M	1/2	SP20/050/M
25	26.0	M25	SP25/M25/M	PG21	SP25/PG21/M	3/4	SP25/075/M
32	34.0	M32	SP32/M32/M	PG29	SP32/PG29/M	1	SP32/100/M
40	44.5	M40	SP40/M40/M	—	—	—	—
50	55.0	M50	SP50/M50/M	—	—	—	—
63	64.5	—	—	—	—	—	—
75	79.0	—	—	—	—	—	—

Metric Thread

Part Number

—	—
—	—
—	—
—	—
M20	SP20/M20/F
M25	SP25/M25/F
M32	SP32/M32/F
—	—
—	—
—	—
—	—

Hole Size (mm)

Part Number

9	SP10/9/C
12	SP12/12/C
16	SP16/16/C
—	—
20	SP20/20/C
25	SP25/25/C
32	SP32/32/C
40	SP40/40/C
51	SP50/51/C
61	SP63/61/C
75	SP75/75/C

Hole Size (mm)

—
SP12/E
SP16/E
—
SP20/E
SP25/E
SP32/E
SP40/E
SP50/E
—
—

IP Rating with appropriate fitting

IP54

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;
Type SP, SN & LFH-SP

n/a

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

Temperature Range

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

Fitting Characteristics



Approvals



For use with following conduit;
Type SP, SN & LFH-SP

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

n/a

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C



For use with following conduit;
Type SP, SN & LFH-SP

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

n/a

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C



For use with following conduit;
Type SP, SN & LFH-SP

Type SP, SN & LFH-SP Conduit

n/a

n/a

n/a

n/a

n/a

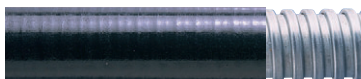
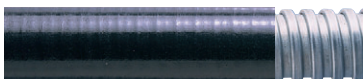
Static: -50°C to +300°C
Moving: -45°C to +250°C



Adaptasteel

Type SPL, SPLHC & SPUL Covered Steel Flexible Conduit & Type SPL Fittings

Product Characteristics - To order quote part no, colour, & reel length - e.g. SPL10/GR/50M

Type	Type SPL						Type SPLHC				Type SPUL			
Description	Liquid Tight Oil Resistant Covered Steel Flexible Conduit						Liquid Tight Extreme Temperature Covered Steel Flexible Conduit				Liquid Tight UL Listed & CSA Approved Covered Steel Flexible Conduit			
Materials	PVC Covered Galvanised Steel Colour Black (Black), Grey (GR) & Orange (OR).						Thermoplastic Rubber Covered Galvanised Steel Colour Black (Black) only.				PVC Covered Galvanised Steel with Copper Packing Colour Grey (GR) only.			
Example														
Nominal Conduit Size (mm)	Outside Diameter (mm)	Us Conduit Size (in)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)
10	11.8	1/4"	SPL10	7.0	40	10, 25, 50	SPLHC10	7.0	40	25, 50	—	—	—	—
12	14.2	5/16"	SPL12	10.0	45	10, 25, 50	SPLHC12	10.0	45	25, 50	—	—	—	—
16	17.8	3/8"	SPL16	12.5	50	10, 25, 50	SPLHC16	12.5	50	25	SPUL16	12.5	50	50
20	21.1	1/2"	SPL20	15.9	80	10, 25, 50	SPLHC20	15.9	80	25	SPUL20	15.9	80	50
25	26.4	3/4"	SPL25	21.0	110	10, 25, 50	SPLHC25	21.0	110	25	SPUL25	21.0	110	25
32	33.1	1"	SPL32	26.7	145	10, 25	SPLHC32	26.7	145	25	SPUL32	26.7	145	25
40	41.8	1 1/4"	SPL40	35.4	180	10, 25	SPLHC40	35.4	180	25	SPUL40	35.4	180	25
50	47.9	1 1/2"	SPL50	40.4	240	10, 25	SPLHC50	40.4	240	25	SPUL50	40.4	240	25
63	59.7	2"	SPL63	51.6	345	10, 25	SPLHC63	51.6	345	25	SPUL63	51.6	345	10
IP Rating with appropriate fitting	For use with following fittings; Type SPL fittings						For use with following fittings; Type SPL fittings				For use with following fittings; Type SPL fittings			
IP40	n/a						n/a				n/a			
IP65	n/a						n/a				n/a			
IP66	Type SPL fittings - Type M & C90						Type SPL fittings - Type M & C90				Type SPL fittings - Type M & C90			
IP67	Type SPL fittings - Type A, B, & M						Type SPL fittings - Type A, B, & M				Type SPL fittings - Type A, B, & M			
IP68	Type SPL fittings - Type M						Type SPL fittings - Type M				Type SPL fittings - Type M			
IP69k	Type SPL fittings - Type M						Type SPL fittings - Type M				Type SPL fittings - Type M			
Temperature Range	Static Applications: -20°C to +105°C Moving Applications: -5°C to +105°C						Static Applications: -65°C to +135°C Moving Applications: -45°C to +150°C				Static Applications: -15°C to +75°C Moving Applications: -5°C to +105°C			
UV Resistance	Very High						Very High				High			
Flexibility & Fatigue Life	Medium Flexibility - Medium Fatigue Life						Very High Flexibility - High Fatigue Life				Medium Flexibility - Medium Fatigue Life			
Fire Performance & EMI Screen	Self Extinguishing						Self Extinguishing Halogen Free				Self Extinguishing			
Approvals	   						 				  			

Adaptasteel

Type SPL, SPLHC & SPUL Covered Steel Flexible Conduit & Type SPL Fittings

Product Characteristics

Type

Description

Materials

Example

Nominal Conduit Size (mm)
Outside Diameter (mm)
US Conduit Size (in)

10 10.0 1/4"
12 14.0 5/16"
16 17.0 3/8"
16 17.0 3/8"
20 21.5 1/2"
25 26.0 3/4"
32 34.0 1"
40 44.5 1 1/4"
50 55.0 1 1/2"
63 64.5 2"

Type M

Straight Swivel Fitting - External Thread

For insertion into threaded entries & knockouts.

Nickel plated brass



Metric Thread	Part Number	PG Thread	Part Number	NPT Thread	Part Number
M12	SPL10/M12/M	PG7	SPL10/PG7/M	—	—
M16	SPL12/M16/M	PG9	SPL12/PG9/M	—	—
M16	SPL16/M16/M	PG11	SPL16/PG11/M	3/8	SPL16/038/M
M20	SPL16/M20/M	PG13.5	SPL16/PG13/M	—	—
M20	SPL20/M20/M	PG16	SPL20/PG16/M	1/2	SPL20/050/M
M25	SPL25/M25/M	PG21	SPL25/PG21/M	3/4	SPL25/075/M
M32	SPL32/M32/M	PG29	SPL32/PG29/M	1	SPL32/100/M
M40	SPL40/M40/M	PG36	SPL40/PG36/M	1 1/4	SPL40/125/M
M50	SPL50/M50/M	PG42	SPL50/PG42/M	1 1/2	SPL50/150/M
M63	SPL63/M63/M	PG48	SPL63/PG48/M	—	—

Type A

Straight Fitting - Fixed External Thread

For insertion into knockouts using a locknut.

Nickel plated brass



Metric Thread	Part Number
—	—
—	—
M16	SPL16/M16/A
M20	SPL16/M20/A
M20	SPL20/M20/A
M25	SPL25/M25/A
M32	SPL32/M32/A
—	—
—	—
—	—

Type B

Straight Fitting - Swivel External Thread

For insertion into threaded entries & knockouts.

Nickel plated brass



Metric Thread	Part Number
—	—
—	—
M16	SPL16/M16/B
M20	SPL16/M20/B
M20	SPL20/M20/B
M25	SPL25/M25/B
M32	SPL32/M32/B
—	—
—	—
—	—

IP Rating with appropriate fitting

IP54

IP65

IP66

IP67

IP68

IP69k

For use with following conduit;
Type SPL, SPLHC & SPUL Conduit

n/a
n/a
Type SPL, SPLHC & SPUL Conduit
Type SPL, SPLHC & SPUL Conduit
Type SPL, SPLHC & SPUL Conduit - 10bar 30 mins
Type SPL, SPLHC & SPUL Conduit

Temperature Range

Static Applications: -65°C to +150°C
Moving Applications: -45°C to +150°C

Fitting Characteristics



Approvals



For use with following conduit;
Type SPL, SPLHC & SPUL Conduit

n/a
n/a
n/a
Type SPL, SPLHC & SPUL Conduit
n/a
n/a

Static Applications: -65°C to +150°C
Moving Applications: -45°C to +150°C

For use with following conduit;
Type SPL, SPLHC & SPUL Conduit

n/a
n/a
n/a
Type SPL, SPLHC & SPUL Conduit
n/a
n/a

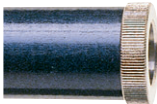
Static Applications: -65°C to +150°C
Moving Applications: -45°C to +150°C



Adaptasteel

Type SPL, SPLHC & SPUL Covered Steel Flexible Conduit & Type SPL Fittings

Product Characteristics - To order quote part no, colour, & reel length - e.g. SPL10/GR/50M

Type	Type E	Type C90	Type 45
Description	Conduit Terminator Cable Protection at exit point	90° Combined Fitting & Elbow with male external thread.	45° Elbow - Fixed Thread
Materials	Nickel plated brass	Nickel plated steel	Nickel plated brass
Example			
Nominal Conduit Size (mm)	Outside Diameter (mm)	US Conduit Size (in)	Part Number
10	10.0	1/4"	SPL10/E
12	14.0	5/16"	SPL12/E
16	17.0	3/8"	SPL16/E
16	17.0	3/8"	—
20	21.5	1/2"	SPL20/E
25	26.0	3/4"	SPL25/E
32	34.0	1"	SPL32/E
40	44.5	1 1/4"	SPL40/E
50	55.0	1 1/2"	SPL50/E
63	64.5	2"	SPL63/E

Metric Thread	Part Number	Part Number
—	—	—
—	—	—
M16	SPL16/M16/C90	
M20	SPL16/M20/C90	
M20	SPL20/M20/C90	
M25	SPL25/M25/C90	
M32	SPL32/M32/C90	
—	—	—
—	—	—
—	—	—

Metric Thread	Part Number	Part Number
—	—	—
—	—	—
M16*	B/M16/45	
M20	B/M20/45	
M20	B/M20/45	
M25	B/M25/45	
M32	B/M32/45	
—	—	—
—	—	—
—	—	—

* Includes M20 Internal Thread

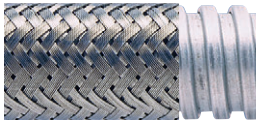
IP Rating with appropriate fitting	For use with following conduit; Type SPL, SPLHC & SPUL	For use with following conduit; Type SPL, SPLHC & SPUL	For use with following conduit; Type SPL, SPLHC & SPUL
IP54	n/a	n/a	n/a
IP65	n/a	n/a	n/a
IP66	n/a	n/a	n/a
IP67	n/a	Type SPL, SPLHC & SPUL	n/a
IP68	n/a	n/a	n/a
IP69k	n/a	n/a	n/a

Temperature Range	Static Applications: -65°C to +300°C Moving Applications: -45°C to +250°C	Static Applications: -65°C to +150°C Moving Applications: -45°C to +150°C	Static Applications: -65°C to +150°C Moving Applications: -45°C to +150°C
Fitting Characteristics	None	None	None
Approvals	 	 	 

Adaptasteel

Type SB, STC, SSB & SSBGS Specialist EMI Screen Conduit & Type SB Fittings

Product Characteristics - To order quote part no & reel length - e.g. SB10/25M

Type Description	Type SB Overbraided Flexible Conduit	Type STC Overbraided Flexible Conduit	Type SSB Overbraided Flexible Conduit	Type SSBGS Overbraided Flexible Conduit
Materials	Galvanised Steel Conduit Galvanised Steel overbraid	Galvanised Steel Conduit Tinned Copper overbraid	Stainless Steel Conduit Stainless Steel overbraid	Galvanised Steel Conduit Stainless Steel overbraid
Example				
Nominal Conduit Size (mm) Outside Diameter (mm)	Part Number Inside Diameter (mm) Minimum Bend Radius (mm) Reel Length (m)	Part Number Inside Diameter (mm) Minimum Bend Radius (mm) Reel Length (m)	Part Number Inside Diameter (mm) Minimum Bend Radius (mm) Reel Length (m)	Part Number Inside Diameter (mm) Minimum Bend Radius (mm) Reel Length (m)
10 10.0	SB10 6.8 25 25	STC10 6.8 25 25	— — — —	— — — —
13 14.0	SB12 10.3 30 25	STC12 10.3 30 25	SSB12 10.3 25 25	SSBG12 10.3 25 25
16 17.5	SB16 13.0 35 25	STC16 13.0 35 25	SSB16 13.0 30 25	SSBG16 13.0 30 25
20 21.5	SB20 16.9 45 25	STC20 16.9 45 25	SSB20 16.9 35 25	SSBG20 16.9 35 25
25 26.0	SB25 21.4 55 25	STC25 21.4 55 25	SSB25 21.4 55 25	SSBG25 21.4 55 25
32 34.0	SB32 28.1 60 10	STC32 28.1 60 10	SSB32 28.1 60 10	SSBG32 28.1 60 10
40 43.6	SB40 37.7 80 10	STC40 37.7 80 10	— — — —	— — — —
50 56.0	SB50 48.4 90 10	STC50 48.4 90 10	— — — —	— — — —
63	SB63 57.5 115 10	— — — —	— — — —	— — — —
75	SB75 70.0 150 10	— — — —	— — — —	— — — —
IP Rating with appropriate fitting	For use with following fittings; Type SB Fittings	For use with following fittings; Type SB Fittings	For use with following fittings; Type SB Fittings	For use with following fittings; Type SB Fittings
IP40	Type SB Fittings - Type A & B	Type SB Fittings - Type A & B	Type SB Fittings - Type A & B	Type SB Fittings - Type A & B
IP65	n/a	n/a	n/a	n/a
IP66	n/a	n/a	n/a	n/a
IP67	n/a	n/a	n/a	n/a
IP68	n/a	n/a	n/a	n/a
IP69k	n/a	n/a	n/a	n/a
Temperature Range	Static Applications: -50°C to +300°C Moving Applications: -45°C to +250°C	Static Applications: -50°C to +300°C Moving Applications: -45°C to +250°C	Static Applications: -50°C to +300°C Moving Applications: -45°C to +250°C	Static Applications: -50°C to +300°C Moving Applications: -45°C to +250°C
UV Resistance	Very High	Very High	Very High	Very High
Flexibility & Fatigue Life	High Flexibility - High Fatigue Life	High Flexibility - High Fatigue Life	High Flexibility - High Fatigue Life	High Flexibility - High Fatigue Life
Fire Performance, Screen & Fitting Characteristics	 	 	 	 
Approvals	 	 	 	 

Adaptasteel

Type SB, STC, SSB & SSBGS Specialist EMI Screen Conduit & Type SB Fittings

Product Characteristics

Type

Description

Type A

Straight Fitting - Fixed External Thread
For insertion into knockouts using a locknut

Type B

Straight Fitting - Swivel External Thread
For insertion into threaded entries & knockouts.

Materials

Nickel plated brass

Nickel plated brass

Example

Nominal Conduit Size (mm)
Outside Diameter (mm)

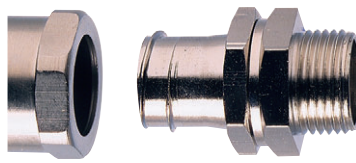
10 10.0
13 14.0
16 17.5
20 21.5
25 26.0
32 34.0
40 43.6
50 56.0
63
75



Metric Thread

Part Number

M12	SB10/M12/A
M16	SB12/M16/A
M16	SB16/M16/A
M20	SB20/M20/A
M25	SB25/M25/A
M32	SB32/M32/A
M40	SB40/M40/A
M50	SB50/M50/A
M63	SB63/M63/A
M75	SB75/M75/A



Metric Thread

Part Number

M12	SB10/M12/B
M16	SB12/M16/B
M16	SB16/M16/B
M20	SB20/M20/B
M25	SB25/M25/B
M32	SB32/M32/B
M40	SB40/M40/B
M50	SB50/M50/B
—	—
—	—

IP Rating with appropriate fitting

IP40
IP65
IP66
IP67
IP68
IP69k

For use with following conduit;
Type SB, STC, SSB & SSBGS Conduit
Type SB, STC, SSB & SSBGS Conduit

n/a
n/a
n/a
n/a
n/a
n/a

For use with following conduit;
Type SB, STC, SSB & SSBGS Conduit
Type SB, STC, SSB & SSBGS Conduit

n/a
n/a
n/a
n/a
n/a
n/a

Temperature Range

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

UV Resistance

Flexibility & Fatigue Life

Fitting Characteristics

Approvals



Adaptasteel

Type SPB & SPTC Specialist Liquid Resistant, EMI Screen Conduit & Type SPB Fittings

Product Characteristics - To order quote part no & reel length - e.g. SPB10/25M

Type Description

Type SPB

Overbraided Flexible Conduit

Type SPTC

Overbraided Flexible Conduit

Type A

Straight Fitting - Fixed External Thread

For insertion into knockouts using a locknut.

Type B

Straight Fitting - Swivel External Thread

For insertion into threaded entries & knockouts.

Materials

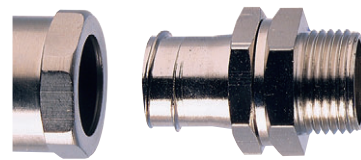
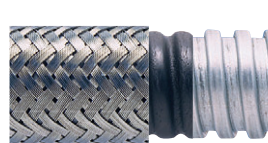
Galvanised Steel Conduit with
PVC Covering
Galvanised Steel overbraid

Galvanised Steel Conduit with
PVC Covering
Tinned Copper overbraid

Nickel plated brass

Nickel plated brass

Example



Nominal Conduit Size (mm)
Outside Diameter (mm)

Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)
SPB10	6.8	25	25
SPB12	10.3	25	25
SPB16	13.0	30	25
SPB20	16.9	35	25
SPB25	21.4	55	25
SPB32	28.1	60	10
SPB40	37.7	80	10
SPB50	48.4	90	10

Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)
SPTC10	6.8	25	25
SPTC12	10.3	25	25
SPTC16	13.0	30	25
SPTC20	16.9	35	25
SPTC25	21.4	55	25
SPTC32	28.1	60	10
SPTC40	37.7	80	10
SPTC50	48.4	90	10

Metric Thread

Part Number

M12	SPB10/M12/A
M16	SPB12/M16/A
M16	SPB16/M16/A
M20	SPB20/M20/A
M25	SPB25/M25/A
M32	SPB32/M32/A
M40	SPB40/M40/A
M50	SPB50/M50/A

Metric Thread

Part Number

M12	SPB10/M12/B
M16	SPB12/M16/B
M16	SPB16/M16/B
M20	SPB20/M20/B
M25	SPB25/M25/B
M32	SPB32/M32/B
M40	SPB40/M40/B
M50	SPB50/M50/B

IP Rating with appropriate fitting

IP54
IP65
IP66
IP67
IP68
IP69k

For use with following fittings;
Type SPB Fittings

Type SPB Fitting - Type A & B
n/a
n/a
n/a
n/a
n/a
n/a

For use with following fittings;
Type SPB Fittings

Type SPB Fitting - Type A & B
n/a
n/a
n/a
n/a
n/a
n/a

For use with following conduit;
Type SPB & SPTC

Type SPB & SPTC
n/a
n/a
n/a
n/a
n/a
n/a

For use with following conduit;
Type SPB & SPTC

Type SPB & SPTC
n/a
n/a
n/a
n/a
n/a
n/a

Temperature Range

Static Applications: -15°C to +70°C
Moving Applications: -5°C to +90°C

Static Applications: -15°C to +70°C
Moving Applications: -5°C to +90°C

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

Static Applications: -50°C to +300°C
Moving Applications: -45°C to +250°C

UV Resistance

Very High

Very High

Flexibility & Fatigue Life

High Flexibility - Medium Fatigue Life

High Flexibility - Medium Fatigue Life

Fire Performance, EMI Screen & Fitting Characteristics



Approvals

Adaptasteel

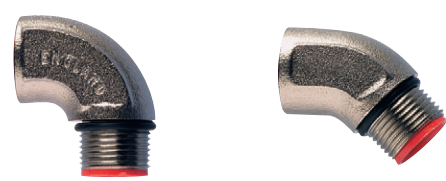
Type SPLHCB Specialist Liquid Tight High Strength Conduit & Type SPLB Fittings

Product Characteristics									
Type		Type SPLHCB				Type A		Type B	
Description		Extreme Temperature, Abuse Resitant, Overbraided Flexible Conduit				Straight Fitting - Fixed External Thread For insertion into knockouts using a locknut.		Straight Fitting - Swivel External Thread For insertion into threaded entries & knockouts.	
Materials		Galvanised Steel Conduit, Smooth Thermoplastic Rubber Covering, Stainless Steel Overbraid				Nickel plated brass		Nickel plated brass	
Example									
Nominal Conduit Size (mm)	Outside Diameter (mm)	Type SB Part Number	Inside Diameter (mm)	Minimum Bend Radius (mm)	Reel Length (m)	Metric Thread	Part Number	Metric Thread	Part Number
16	19.8	SPLHCB16	12.5	80	25	M16	SPLB16/M16/A	M16	SPLB16/M16/B
16	19.8	SPLHCB16	12.5	80	25	M20	SPLB16/M20/A	M20	SPLB16/M20/B
20	23.1	SPLHCB20	15.9	95	25	M20	SPLB20/M20/A	M20	SPLB20/M20/B
25	28.4	SPLHCB25	21.0	115	25	M25	SPLB25/M25/A	M25	SPLB25/M25/B
32	35.1	SPLHCB32	26.7	145	10	M32	SPLB32/M32/A	M32	SPLB32/M32/B
40	44.0	SPLHCB40	35.4	180	10	M40	SPLB40/M40/A	—	—
50	56.0	SPLHCB50	40.4	240	10	M50	SPLB50/M50/A	—	—
IP Rating with appropriate fitting		For use with following fittings; Type SPLB Fittings				For use with following conduit; Type SPLHCB		For use with following conduit; Type SPLHCB	
IP40		n/a				n/a		n/a	
IP65		n/a				n/a		n/a	
IP66		Type SPLB Fittings - A & B				Type SPLHCB		Type SPLHCB	
IP67		Type SPLB Fittings - Type A & B				Type SPLHCB		Type SPLHCB	
IP68		Type SPLB Fittings - Type A & B				Type SPLHCB - 10bar 30 mins		Type SPLHCB - 10bar 30 mins	
IP69k		n/a				n/a		n/a	
Temperature Range		Static Applications: -65°C to +135°C Moving Applications: -45°C to +150°C				Static Applications: -65°C to +150°C Moving Applications: -45°C to +150°C		Static Applications: -65°C to +150°C Moving Applications: -45°C to +150°C	
UV Resistance		Very High							
Flexibility & Fatigue Life		Very High Flexibility - High Fatigue Life							
Fire Performance, EMI Screen & Fitting Characteristics									
Approvals		 				 		 	

Metallic

Locknuts, P-Clips, 90° & 45° Elbows, Proximity Switch Adaptors & Female Couplers

Product Characteristics

Type	Type LNB/LNS	Type P	Type 90/45																																																																																																																																																													
Description	Metallic Locknuts	P-Clip Conduit Support	Brass Elbows																																																																																																																																																													
Materials	Nickel Plated Brass Galvanised Steel	Plated steel construction with PVC insert	Nickel Plated Brass																																																																																																																																																													
Example																																																																																																																																																																
	<table><tr><th>Metric Thread</th><th>Part Number Nickel Plated Brass</th><th>Part Number Galvanised Steel</th><th>PG Thread</th><th>Part Number Nickel Plated Brass</th><th>NPT Thread</th><th>Part Number Steel</th></tr><tr><td>M12x1.0</td><td>LNB/M12X1</td><td>—</td><td>PG7</td><td>LNB/PG7</td><td>3/8"</td><td>LNS/038</td></tr><tr><td>M12x1.5</td><td>LNB/M12</td><td>—</td><td>PG9</td><td>LNB/PG9</td><td>1/2"</td><td>LNS/050</td></tr><tr><td>M16</td><td>LNB/M16</td><td>LNS/M16</td><td>PG11</td><td>LNB/PG11</td><td>3/4"</td><td>LNS/075</td></tr><tr><td>M20</td><td>LNB/M20</td><td>LNS/M20</td><td>PG13.5</td><td>LNB/PG13</td><td>1"</td><td>LNS/100</td></tr><tr><td>M25</td><td>LNB/M25</td><td>LNS/M25</td><td>PG16</td><td>LNB/PG16</td><td>1 1/4"</td><td>LNS/125</td></tr><tr><td>M32</td><td>LNB/M32</td><td>LNS/M32</td><td>PG21</td><td>LNB/PG21</td><td>1 1/2"</td><td>LNS/150</td></tr><tr><td>M40</td><td>LNB/M40</td><td>—</td><td>PG29</td><td>LNB/PG29</td><td>2"</td><td>LNS/200</td></tr><tr><td>M50</td><td>LNB/M50</td><td>—</td><td>PG36</td><td>LNB/PG36</td><td></td><td></td></tr><tr><td>M63</td><td>LNB/M63</td><td>—</td><td>PG42</td><td>LNB/PG42</td><td></td><td></td></tr><tr><td>M75</td><td>LNB/M75</td><td>—</td><td>PG48</td><td>LNB/PG48</td><td></td><td></td></tr></table>	Metric Thread	Part Number Nickel Plated Brass	Part Number Galvanised Steel	PG Thread	Part Number Nickel Plated Brass	NPT Thread	Part Number Steel	M12x1.0	LNB/M12X1	—	PG7	LNB/PG7	3/8"	LNS/038	M12x1.5	LNB/M12	—	PG9	LNB/PG9	1/2"	LNS/050	M16	LNB/M16	LNS/M16	PG11	LNB/PG11	3/4"	LNS/075	M20	LNB/M20	LNS/M20	PG13.5	LNB/PG13	1"	LNS/100	M25	LNB/M25	LNS/M25	PG16	LNB/PG16	1 1/4"	LNS/125	M32	LNB/M32	LNS/M32	PG21	LNB/PG21	1 1/2"	LNS/150	M40	LNB/M40	—	PG29	LNB/PG29	2"	LNS/200	M50	LNB/M50	—	PG36	LNB/PG36			M63	LNB/M63	—	PG42	LNB/PG42			M75	LNB/M75	—	PG48	LNB/PG48			<table><tr><th>Nominal Conduit Size (mm)</th><th>Part Number</th></tr><tr><td>10</td><td>P CLIP/10</td></tr><tr><td>12</td><td>P CLIP/12</td></tr><tr><td>16</td><td>P CLIP/16</td></tr><tr><td>16</td><td>P CLIP/16</td></tr><tr><td>20</td><td>P CLIP/20</td></tr><tr><td>25</td><td>P CLIP/25</td></tr><tr><td>32</td><td>P CLIP/32</td></tr><tr><td>40</td><td>P CLIP/40</td></tr><tr><td>50</td><td>P CLIP/50</td></tr><tr><td>63</td><td>P CLIP/63</td></tr><tr><td>75</td><td>P CLIP/75</td></tr></table>	Nominal Conduit Size (mm)	Part Number	10	P CLIP/10	12	P CLIP/12	16	P CLIP/16	16	P CLIP/16	20	P CLIP/20	25	P CLIP/25	32	P CLIP/32	40	P CLIP/40	50	P CLIP/50	63	P CLIP/63	75	P CLIP/75	<table><tr><th>Metric Internal Thread</th><th>External Thread</th><th>90° Elbow Part Number</th><th>45° Elbow Part Number</th></tr><tr><td>M16</td><td>M16</td><td>B/M16/90</td><td>—</td></tr><tr><td>M20</td><td>M16</td><td>—</td><td>B/M16/45</td></tr><tr><td>M20</td><td>M20</td><td>B/M20/90</td><td>B/M20/45</td></tr><tr><td>M25</td><td>M25</td><td>B/M25/90</td><td>B/M25/45</td></tr><tr><td>M32</td><td>M32</td><td>B/M32/90</td><td>B/M32/45</td></tr><tr><td>M20</td><td>1/2" NPT</td><td>B/050/90</td><td>B/050/45</td></tr><tr><td>M25</td><td>3/4" NPT</td><td>B/075/90</td><td>B/075/45</td></tr><tr><td>M32</td><td>1" NPT</td><td>B/100/90</td><td>B/100/45</td></tr><tr><td>M16</td><td>PG9</td><td>B/PG9/90</td><td>—</td></tr><tr><td>M16</td><td>PG11</td><td>B/PG11/90</td><td>B/PG11/45</td></tr><tr><td>M20</td><td>PG13.5</td><td>B/PG13/90</td><td>B/PG13/45</td></tr><tr><td>M20</td><td>PG16</td><td>B/PG16/90</td><td>B/PG16/45</td></tr><tr><td>M25</td><td>PG21</td><td>B/PG21/90</td><td>B/PG21/45</td></tr></table>	Metric Internal Thread	External Thread	90° Elbow Part Number	45° Elbow Part Number	M16	M16	B/M16/90	—	M20	M16	—	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	M20	1/2" NPT	B/050/90	B/050/45	M25	3/4" NPT	B/075/90	B/075/45	M32	1" NPT	B/100/90	B/100/45	M16	PG9	B/PG9/90	—	M16	PG11	B/PG11/90	B/PG11/45	M20	PG13.5	B/PG13/90	B/PG13/45	M20	PG16	B/PG16/90	B/PG16/45	M25	PG21	B/PG21/90	B/PG21/45
Metric Thread	Part Number Nickel Plated Brass	Part Number Galvanised Steel	PG Thread	Part Number Nickel Plated Brass	NPT Thread	Part Number Steel																																																																																																																																																										
M12x1.0	LNB/M12X1	—	PG7	LNB/PG7	3/8"	LNS/038																																																																																																																																																										
M12x1.5	LNB/M12	—	PG9	LNB/PG9	1/2"	LNS/050																																																																																																																																																										
M16	LNB/M16	LNS/M16	PG11	LNB/PG11	3/4"	LNS/075																																																																																																																																																										
M20	LNB/M20	LNS/M20	PG13.5	LNB/PG13	1"	LNS/100																																																																																																																																																										
M25	LNB/M25	LNS/M25	PG16	LNB/PG16	1 1/4"	LNS/125																																																																																																																																																										
M32	LNB/M32	LNS/M32	PG21	LNB/PG21	1 1/2"	LNS/150																																																																																																																																																										
M40	LNB/M40	—	PG29	LNB/PG29	2"	LNS/200																																																																																																																																																										
M50	LNB/M50	—	PG36	LNB/PG36																																																																																																																																																												
M63	LNB/M63	—	PG42	LNB/PG42																																																																																																																																																												
M75	LNB/M75	—	PG48	LNB/PG48																																																																																																																																																												
Nominal Conduit Size (mm)	Part Number																																																																																																																																																															
10	P CLIP/10																																																																																																																																																															
12	P CLIP/12																																																																																																																																																															
16	P CLIP/16																																																																																																																																																															
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20	P CLIP/20																																																																																																																																																															
25	P CLIP/25																																																																																																																																																															
32	P CLIP/32																																																																																																																																																															
40	P CLIP/40																																																																																																																																																															
50	P CLIP/50																																																																																																																																																															
63	P CLIP/63																																																																																																																																																															
75	P CLIP/75																																																																																																																																																															
Metric Internal Thread	External Thread	90° Elbow Part Number	45° Elbow Part Number																																																																																																																																																													
M16	M16	B/M16/90	—																																																																																																																																																													
M20	M16	—	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																																																																																																																																																													
M20	1/2" NPT	B/050/90	B/050/45																																																																																																																																																													
M25	3/4" NPT	B/075/90	B/075/45																																																																																																																																																													
M32	1" NPT	B/100/90	B/100/45																																																																																																																																																													
M16	PG9	B/PG9/90	—																																																																																																																																																													
M16	PG11	B/PG11/90	B/PG11/45																																																																																																																																																													
M20	PG13.5	B/PG13/90	B/PG13/45																																																																																																																																																													
M20	PG16	B/PG16/90	B/PG16/45																																																																																																																																																													
M25	PG21	B/PG21/90	B/PG21/45																																																																																																																																																													

Type	Type PSA	Type TC	Female Coupler																																																																														
Description	Proximity Switch Connectors	Unef Thread Converters with two Internal Threads	Brass Female Coupler																																																																														
Materials	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass																																																																														
Example																																																																																	
	<table><tr><th>Internal Thread</th><th>To M16 Internal Thread</th><th>To PG9 Internal Thread</th></tr><tr><td>M12 x 1.0</td><td>PSA16/M12</td><td>PSA9/M12</td></tr><tr><td>M18 x 1.0</td><td>PSA16/M18</td><td>PSA9/M18</td></tr><tr><td>M30</td><td>PSA16/M30</td><td>PSA9/M30</td></tr></table>	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	<table><tr><th>Internal Thread</th><th>To M16 Internal Thread</th><th>To M20 Internal Thread</th><th>To M25 Internal Thread</th><th>To M32 Internal Thread</th><th>To PG21 Internal Thread</th></tr><tr><td>3/8" UNEF</td><td>B/063U-M16/TC</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1/2" UNEF</td><td>B/075U-M16/TC</td><td>B/075U-M20/TC</td><td>—</td><td>—</td><td>—</td></tr><tr><td>3/4" UNEF</td><td>—</td><td>B/088U-M20/TC</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1" UNEF</td><td>—</td><td>B/100U-M20/TC</td><td>B/100U-M25/TC</td><td>—</td><td>—</td></tr><tr><td>1 1/8" UNEF</td><td>—</td><td>B/119U-M20/TC</td><td>B/119U-M25/TC</td><td>—</td><td>—</td></tr><tr><td>1 1/4" UNEF</td><td>—</td><td>B/131U-M20/TC</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1 1/2" UNEF</td><td>—</td><td>—</td><td>B/144U-M25/TC</td><td>B/144U-M32/TC</td><td>B/144U-PG21/TC</td></tr></table>	Internal Thread	To M16 Internal Thread	To M20 Internal Thread	To M25 Internal Thread	To M32 Internal Thread	To PG21 Internal Thread	3/8" UNEF	B/063U-M16/TC	—	—	—	—	1/2" UNEF	B/075U-M16/TC	B/075U-M20/TC	—	—	—	3/4" UNEF	—	B/088U-M20/TC	—	—	—	1" UNEF	—	B/100U-M20/TC	B/100U-M25/TC	—	—	1 1/8" UNEF	—	B/119U-M20/TC	B/119U-M25/TC	—	—	1 1/4" UNEF	—	B/131U-M20/TC	—	—	—	1 1/2" UNEF	—	—	B/144U-M25/TC	B/144U-M32/TC	B/144U-PG21/TC	<table><tr><th>Thread</th><th>Part Number</th></tr><tr><td>M16</td><td>B/M16/C</td></tr><tr><td>M20</td><td>B/M20/C</td></tr><tr><td>M25</td><td>B/M25/C</td></tr><tr><td>M32</td><td>B/M32/C</td></tr><tr><td>M40</td><td>B/M40/C</td></tr><tr><td>M50</td><td>B/M50/C</td></tr><tr><td>M63</td><td>B/M63/C</td></tr><tr><td>M75</td><td>B/M75/C</td></tr></table>	Thread	Part Number	M16	B/M16/C	M20	B/M20/C	M25	B/M25/C	M32	B/M32/C	M40	B/M40/C	M50	B/M50/C	M63	B/M63/C	M75	B/M75/C
Internal Thread	To M16 Internal Thread	To PG9 Internal Thread																																																																															
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M75	B/M75/C																																																																																

Metallic

Enlargers, Reducers & Converters

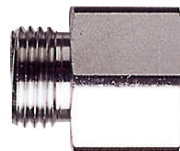
Product Characteristics

Type E, Type R & Type TC

Description Enlargers, Reducers & Converters

Materials Nickel Plated Brass

Example



External Thread	To M12 Internal Thread	To M16 Internal Thread	To M20 Internal Thread	To M25 Internal Thread	To M32 Internal Thread	To M40 Internal Thread	To 1/2" NPT Internal Thread
M16	B/M16-M12/R	—	B/M16-M20/E	—	—	—	—
M20	B/M20-M12/R	B/M20-M16/R	—	B/M20-M25/E	—	—	B/M20-050/TC
M25	—	—	B/M25-M20/R	—	B/M25-M32/E	—	—
M32	—	—	—	B/M32-M25/R	—	—	—
M40	—	—	—	—	B/M40-M32/R	—	—
M50	—	—	—	—	—	B/M50-M40/R	—
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	—	—	—	B/PG11-050/TC
PG13.5	—	B/PG13-M16/TC	B/PG13-M20/TC	—	—	—	—
PG16	—	B/PG16-M16/TC	B/PG16-M20/TC	B/PG16-M25/TC	—	—	B/PG16-050/TC
PG21	—	B/PG21-M16/TC	B/PG21-M20/TC	B/PG21-M25/TC	B/PG21-M32/TC	—	—
PG29	—	—	B/PG29-M20/TC	B/PG29-M25/TC	B/PG29-M32/TC	B/PG29-M40/TC	—
PG36	—	—	—	—	B/PG36-M32/TC	B/PG36-M40/TC	—
PG42	—	—	—	—	—	—	—
PG48	—	—	—	—	—	—	—
1/2" NPT	—	B/050-M16/TC	B/050-M20/TC	—	—	—	—

EXTERNAL THREAD	To PG7 Internal Thread	To PG9 Internal Thread	To PG11 Internal Thread	To PG13.5 Internal Thread	To PG16 Internal Thread	To PG21 Internal Thread	To PG29 Internal Thread	To PG36 Internal Thread	To PG42 Internal Thread	To PG48 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	B/M20-PG16/TC	B/M20-PG21/TC	—	—	—	—
M25	—	—	—	—	—	B/M25-PG21/TC	—	—	—	—
M32	—	—	—	—	—	—	B/M32-PG29/TC	—	—	—
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	B/PG11-PG16/E	—	—	—	—	—
PG13.5	B/PG13-PG7/R	B/PG13-PG9/R	B/PG13-PG11/R	—	B/PG13-PG16/E	B/PG13-PG21/E	—	—	—	—
PG16	B/PG16-PG7/R	B/PG16-PG9/R	B/PG16-PG11/R	B/PG16-PG13/R	—	B/PG16-PG21/E	—	—	—	—
PG21	—	—	B/PG21-PG11/R	B/PG21-PG13/R	B/PG21-PG16/R	—	B/PG21-PG29/E	—	—	—
PG29	—	—	—	—	B/PG29-PG16/R	B/PG29-PG21/R	—	B/PG29-PG36/E	—	—
PG36	—	—	—	—	—	B/PG36-PG21/R	B/PG36-PG29/R	—	B/PG36-PG42/E	B/PG36-PG48/E
PG42	—	—	—	—	—	—	B/PG42-PG29/R	B/PG42-PG36/R	—	B/PG42-PG48/E
PG48	—	—	—	—	—	—	—	B/PG48-PG36/R	B/PG48-PG42/R	—

Convenience Packs for the Professional Installer

Available in 20 & 25mm Diameter Conduit Systems

Product Characteristics

Type	LFH Professional	Liquid Resistant Convenience	Budget Professional
Description	Installer Pack - LFH Nylon 6 Conduit with Adaptalok Fittings and Cable Glands.	CONVENIENCE PACK - Type SP Adaptasteel PVC Covered Steel Conduit with Fixed and Swivel Fittings.	Installer Pack - A Budget Pack, using Polypropylene Conduit. [For Limited Applications]
Example			
Pack Contents	10m Black Type PA LFH Nylon 6	10m Black Type SP PVC Covered Steel	10m Grey Type PP Polypropylene
Conduit			
Conduit Clips	10	—	10
One-Piece Conduit Fitting	10	—	10
Locknuts	10	10	10
Fixed Male Fitting	—	5	—
Swivel Male Fitting	—	5	—
M20 Cable Glands	10	—	10
IP Rating	IP66	IP54	IP54
Part No's	CP-AF20A-BS-LFH & CP-AF25A-BS-LFH	CP-AF20SP-BS	CP-AF20BS-PP-INST Pack of 10 Fittings (Straight) CP-AF20A-APP, CP-AF25A-APP

Type	LFH Convenience	Retail/Office Convenience	Budget Convenience
Description	Convenience Pack - Adaptalok Nylon Conduit with One-Piece, Fast Fit, Push and Twist Fittings.	Convenience Pack - A General Purpose Pack with Grey & White Self-Extinguishing PVC Pliable Conduit & One-Piece Fittings & Locknuts.	Convenience Pack - Type PP Polypropylene Conduit with One-Piece, Fast Fit, Push & Twist Fittings. [For Limited Applications]
Example			
Pack Contents	10m Black Type PA Polyamide (Nylon) 6	10m Grey & White Type KF PVCu	10m Grey Type PP Polypropylene
Conduit			
One-Piece Conduit Fitting	10	10	10
Locknuts	10	10	10
IP Rating	IP66	IP54	IP54
Part No's	CP-AF20A & CP-AF25A (Black only) Pack of 10 Fittings (Straight) AL21/M20/A/BL, AL28/M20/A/BL	CP-AF20BS & CP-AF25BS (Grey only) CP-KF20BS & CP-KF25BS (White only)	CP-AF20BS-PP & CP-AF25BS-PP (Grey only) Pack of 10 Fittings (Straight) CP-AF20A-APP, CP-AF25A-APP

Thread Data, EMI Screen System & Fire Performance

Thread Data

Metric Standard thread conforming to EN60423 & BS3643				PG German Standard thread conforming to DIN40430				PF Japanese conduit thread conforming to JIS B 0202				NPT US taper seal pipe thread conforming to ANSI/ASME B1.20.1 – 1983				UNEF/UNS American Unified Thread conforming to BS1580			
Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch	Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch	Thread Size (inches)	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch	Thread Size (inches)	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch	Thread Size (inches)	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
M8	8.0	6.9	1.0	PG7	12.5	11.3	1.27	1/4	13.0	—	1.34	—	—	—	—	5/8	15.9	14.7	1.06
M10	10.0	8.9	1.0	PG9	15.2	13.9	1.41	3/8	16.7	15.0	1.34	3/8	16.7	15.0	1.14	3/4	19.1	17.7	1.27
M12	12.0	10.9	1.0	PG11	18.6	17.3	1.41	1/2	21.0	18.6	1.81	1/2	21.0	18.6	1.81	13/16	20.6	19.3	1.27
M12	12.0	10.4	1.5	PG13.5	20.4	19.1	1.41	3/4	26.4	24.1	1.81	3/4	26.4	24.1	1.81	7/8	22.2	20.9	1.27
M16	16.0	14.4	1.5	PG16	22.5	21.2	1.41	1	33.3	30.3	2.31	1	33.3	30.3	2.21	15/16	23.8	22.4	1.27
M18	18.0	16.9	1.0	PG21	28.3	26.8	1.59	1 1/4	41.9	39.0	2.31	1 1/4	41.9	39.0	2.21	1	25.4	24.0	1.27
M20	20.0	18.4	1.5	PG29	37.0	35.5	1.59	1 1/2	47.8	44.8	2.31	1 1/2	47.8	44.8	2.21	1 1/8	28.6	27.0	1.41
M25	25.0	23.4	1.5	PG36	47.0	45.5	1.59	2	59.6	56.7	2.31	2	59.6	56.7	2.21	1 3/16	30.2	28.6	1.41
M30	30.0	28.4	1.5	PG42	54.0	52.5	1.59	—	—	—	—	—	—	—	—	1 1/4	31.8	30.2	1.41
M32	32.0	30.4	1.5	PG48	59.3	57.8	1.59	—	—	—	—	—	—	—	—	1 3/16	33.3	31.8	1.41
M40	40.0	38.4	1.5	—	—	—	—	—	—	—	—	—	—	—	—	1 3/8	34.9	33.4	1.41
M50	50.0	48.4	1.5	—	—	—	—	—	—	—	—	—	—	—	—	1 7/16	36.5	35.0	1.41
M63	63.0	61.4	1.5	—	—	—	—	—	—	—	—	—	—	—	—	1 3/4	44.5	42.9	1.41
M75	75.0	73.4	1.5	—	—	—	—	—	—	—	—	—	—	—	—	2	50.8	49.3	1.59
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2 1/4	57.2	55.4	1.59

NOTE: Dimensions are nominal & in mm unless otherwise stated.

EMI Screen System

40db @ 100MHz



STANDARD
EMI SCREEN

SCREENING LEVEL
60db @ 100MHz



ENHANCED
EMI SCREEN

75db @ 100MHz



HIGH
EMI SCREEN

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.

Fire Performance



LOW
FIRE HAZARD



ENHANCED LOW
FIRE HAZARD



SUPER LOW
FIRE HAZARD



INHERENT LOW
FIRE HAZARD

Property	LFH	ELFH	SLFH	ILFH
Oxygen Index ISO4589	31% ≥ OI ≥ 28%	OI ≥ 34%	OI ≥ 34%	Inherent Low
BS6853 Smoke Density 3m ³	0.02 ≥ A ₀ ≥ 0.03	0.005 ≥ A ₀ ≥ 0.02	A ₀ ≤ 0.005	Fire Hazard
Zero Halogen	✓	✓	✓	i.e.
Zero Phosphorus	✓	✓	✓	Type S, SS, SPB
Zero Sulphur	✓	✓	✓	STC, SSB & SSBGS
London Underground	CONCESSION	APPROVED	APPROVED	Metallic Conduit
Toxicity Index NES713 Issue 3	5.0 ≥ TI ≥ 6.0	0.5 ≥ TI ≥ 5.0	TI ≤ 0.5	& Fittings
NFF16-102	I3F2	I2F2	I2F1	

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.

IP Ratings & Fitting Characteristics

IP suitability ratings are a system for classifying the degree of protection provided by enclosures of electrical equipment. The higher the number, the greater the degree of protection; they apply **ONLY** to properly installed equipment. The numerals stand for the following:

IP 68

The first digit stands for:
Protection against Dust



IP 68

The second digit stands for:
Protection against Water



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 up to 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
- 9k** IP69k Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80bar) from any angle.

Fitting Characteristics



Fitting or thread swivels independently of conduit during installation 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

Chemical Resistance

Chemical Resistance Comparison Table

Products	PA, PR, PADL, SN	PI, PF	CP	KF, RF, SP	PP	PK	Fittings PA66	ATS Elastomer Seal	S (incl braid)	SS (incl braid)	LFH-SP	SPL, SPUL	SPLHC	TC braid	Fittings nickel plated brass
Chemical															
Astm no.1	●	●	●	■	●	●	●	●	●	●	▲	●	●	●	●
Astm no.2	●	●	●	■	●	●	●	●	●	●	▲	●	●	●	●
Astm no.3	●	●	●	■	●	●	●	●	●	●	▲	●	●	●	●
Acetic Acid (10%)	▲	▲	▲	▲	●	●	▲	▲	■	●	■	■	●	▲	●
Acetone	●	●	▲	■	●	●	●	▲	●	●	■	■	●	●	●
Aluminium Chloride	▲	●	■	▲	●	●	▲	●	■	▲	●	●	●	▲	NT
Aniline	▲	■	■	■	●	▲	▲	■	●	●	▲	■	●	●	●
Benzaldehyde	▲	▲	▲	■	▲	●	▲	▲	●	●	■	■	▲	●	●
Benzene	●	▲	▲	■	▲	●	●	▲	●	●	■	■	■	●	●
Carbon tetrachloride	●	●	■	▲	▲	●	●	▲	●	●	■	▲	▲	●	●
Chlorine Water	■	■	▲	■	▲	■	■	■	■	■	▲	■	●	■	●
Chloroform	■	■	■	■	▲	●	■	▲	●	●	■	■	▲	●	●
Citric acid	●	●	●	■	●	●	●	●	●	●	●	●	▲	●	●
Copper sulphate	▲	●	●	●	●	●	▲	●	●	●	●	●	●	●	●
Cresol	■	■	NT	▲	●	▲	■	■	●	●	■	▲	●	▲	●
Diesel oil	●	▲	●	▲	●	●	●	●	●	●	▲	▲	●	●	●
Diethylamine	●	▲	▲	▲	●	●	●	■	●	●	●	▲	●	●	●
Ethanol	●	▲	●	■	●	●	●	▲	●	●	▲	■	●	●	●
Ether	●	●	NT	▲	●	●	●	●	●	●	■	▲	●	●	●
Ethylamine	●	▲	NT	▲	●	●	●	■	●	●	▲	▲	●	●	●
Ethylene Glycol	●	●	▲	▲	●	●	●	●	■	●	●	▲	●	●	●
Ethyl ethanoate	▲	●	●	■	●	●	▲	■	●	●	■	■	●	●	●
Freon 32	●	●	●	▲	●	●	●	▲	■	■	■	▲	■	●	●
Hydrchloric acid (10%)	■	■	▲	●	●	●	■	▲	■	■	■	●	●	■	●
Hydrchloric acid (36%)	■	■	■	▲	●	●	■	■	■	■	■	●	●	■	●
Hydrogen peroxide (35%)	▲	▲	▲	●	●	●	▲	■	■	●	▲	●	▲	●	●
Hydrogen peroxide (87%)	■	■	■	●	▲	●	■	■	■	●	■	●	■	▲	●
Lactic acid	▲	●	■	▲	●	●	▲	●	■	●	●	▲	▲	●	●
Lubricating oil	●	●	●	▲	●	●	●	●	■	●	●	▲	●	●	●
Methanol	▲	▲	●	■	●	●	▲	▲	●	●	▲	■	●	●	●
Methyl bromide	■	■	NT	■	▲	●	■	■	●	●	■	■	▲	●	●
MEK	●	●	▲	■	●	●	●	▲	●	●	■	■	●	●	●
Nitric acid (10%)	■	■	▲	●	●	●	■	■	■	■	●	●	●	■	●
Nitric acid (70%)	■	■	■	●	●	■	■	■	■	■	■	●	●	■	●
Oxalic acid	▲	●	▲	▲	●	●	▲	▲	■	●	●	●	●	▲	●
Ozone (gas)	■	■	NT	▲	▲	●	■	■	■	●	●	▲	▲	●	●
Paraffin oil	●	●	●	▲	●	●	●	●	■	●	▲	●	●	●	●
Petrol	●	●	●	■	●	●	●	●	●	●	■	●	●	●	●
Phenol	■	■	■	▲	●	▲	■	▲	■	●	■	▲	●	▲	●
Sea water	●	●	●	●	●	●	●	●	■	●	●	●	●	●	▲
Silver nitrate	●	●	NT	●	●	●	●	●	■	●	●	●	●	●	●
Skydrol	●	●	●	■	●	●	●	▲	●	●	■	■	●	●	●
Sodium chloride	●	●	●	●	●	●	●	●	■	●	●	●	●	●	▲
Sodium hydroxide (10%)	●	●	●	●	●	●	●	●	■	●	●	●	●	●	●
Sodium hydroxide (60%)	●	▲	■	▲	●	●	●	▲	■	▲	●	●	●	●	●
Sulphur dioxide (gas)	■	■	▲	●	●	●	■	■	■	■	▲	●	●	▲	■
Sulphuric acid (10%)	■	▲	●	●	●	●	■	■	■	■	●	●	●	■	■
Sulphuric acid (70%)	■	■	■	●	●	■	■	■	■	■	▲	●	●	■	■
Toluene	●	●	▲	■	●	●	●	■	●	●	▲	■	■	●	●
Transformer oil	●	●	●	▲	●	●	●	●	●	●	▲	●	▲	●	●
1,1,1-Trichloroethane	●	●	▲	■	▲	●	●	▲	■	●	▲	■	■	●	●
Trichloroethylene	▲	■	■	■	■	●	▲	▲	■	●	■	▲	■	●	●
Turpentine	●	●	●	▲	■	●	●	●	■	●	■	▲	■	●	●
Vegetable oil	●	●	●	▲	●	●	●	●	●	●	▲	●	●	●	●
Vinyl acetate	▲	●	NT	■	●	●	▲	■	■	●	■	■	●	●	●
Water	●	●	NT	●	●	●	●	▲	■	●	■	▲	●	●	●
White spirit	●	●	NT	▲	●	●	●	▲	●	●	■	▲	▲	●	●
Zinc chloride	■	●	▲	●	●	●	■	●	■	●	●	●	●	▲	●

Key
 SUITABLE ●
 LIMITED SUITABILITY ▲
 UNSUITABLE ■
 NOT TESTED NT

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.

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 you to 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	Number of Wires							
	1	2	3	4	5	10	15	20
1mm	6.6	13.2	19.8	26.4	33	66	99	132
1.5mm	7.6	15.2	22.8	30.4	38	76	114	152
2.5mm	9.6	19.2	28.8	38.4	48	96	144	192
4mm	14.5	29	43.5	58	72.5	145	217.5	290
6mm	18.8	37.6	56.4	75.2	94	188	282	376
10mm	29.3	58.6	87.9	117.2	146.5	293	439.5	586
16mm	40.2	80.4	120.6	160.8	201	402	603	804
25mm	63.8	127.6	191.4	255.2	319	638	957	1276
35mm	83.5	167	250.5	334	417.5	835	1252	1670
50mm	113	226	339	452	565	1130	1695	2260
70mm	149	298	447	596	745	1490	2235	-
95mm	204	408	612	816	1020	2040	-	-

Table 2. Wire Fill of Plastic & Metallic Conduit.

Plastic Conduit			Metallic Conduit		
Nominal Diameter	100% Fill	40% Fill	Nominal Diameter	100% Fill	40% Fill
10mm	33.2	13	10mm	25.5	10.2
13mm	72.4	29	12mm	58.1	23.2
16mm	109.4	44	16mm	83.3	33.3
18mm	158.4	63	20mm	160.6	64.2
21mm	213.8	86	25mm	243.3	97.3
28mm	369.8	148	32mm	452.4	181
34mm	602.6	241	40mm	855.3	342.1
42mm	973.1	390	50mm	1164.2	465.7
54mm	1698.2	680	63mm	1963.5	785.4
80mm	3520	1410	75mm	3473.2	1389.3
106mm	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.

IEC61386 Classifications

IEC61386 Classifications Table

Non-metallic	WITH FITTING	COMPRESSION STRENGTH	IMPACT STRENGTH"	MINIMUM TEMP.	MAXIMUM TEMP.	BENDING PROPERTIES	ELECTRICAL PROPERTIES	IP RATING SOLIDS	IP RATING WATER	CORROSION RESISTANCE	TENSILE STRENGTH	NON-FLAME PROPAGATING	SUSPENDED LOAD CAPACITY
PA LIGHT	AL	2	4	2	4	4	0	6	6	-	1	1	0
PA STANDARD	AL	2	4	2	4	4	0	6	6	-	1	1	0
PA HEAVY	AL	2	4	2	4	4	0	6	6	-	2	1	0
PF STANDARD	AL	1	3	5	4	4	0	6	6	-	1	1	0
PF HEAVY	AL	2	4	5	4	4	0	6	6	-	1	1	0
PI STANDARD	AL	1	3	5	4	4	0	6	6	-	1	1	0
PI HEAVY	AL	2	4	5	4	4	0	6	6	-	1	1	0
PR	AL	2	4	2	4	4	0	6	6	-	1	1	0
CP	AL	1	4	4	5	4	0	6	6	-	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

Metallic

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	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

Units	(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	Pl/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	-	-	-	-

Kwikcut, Swingcut, Cut-Vice & Rotocut

Cutting Tools

Product Characteristics

Type
Description

Kwikcut

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

Example



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.

Part No. KWIKCUT-BLADE

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.



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.

Part No. SWINGCUT-BLADE

Cutting & Assembly Guide

Assembly of all Adaptaflex's conduit and fittings is now covered in a new cutting instructions booklet, which covers the correct cutting of conduit and how to assemble and attach the fittings.

By following the easy steps you are assured of correct installation and peak operating performance.

The booklet also provides useful tips, gained from actual installation experiences, which just might save you time in the future, when next installing Adaptaflex flexible conduit systems.

Ask for your copy today.

Non-metallic Systems - Adaptalok & ATS with type PA, PR, PI, CP & PADL

Tools required

- Kwikcut cutting tool, fine-tooth hacksaw, or utility knife.
- Adaptalok removal tool to assist fitting removal.

Cutting the conduit

Use the Kwikcut cutting tool. **Note:** do not use a utility knife to cut conduit for use with Adaptalok & ATS fitting as IP integrity cannot be maintained.

Or use a fine-tooth hacksaw. De-burr as necessary.

Adaptalok IP67 & IP68* Seal

- 1) Angle seal approx. 30° and push one half to engage 2 ribs.
- 2) Push down on the ribs and feed the second half of the seal into the conduit.
- 3) Push conduit into Adaptalok as normal - see below.

* IP rated to IP68 - 1 bar for 35 mins. Without the seal IP68 is achieved.

Fitting Assembly

Offer up the fitting.

Push and twist to ensure a firm fit and seal.

Pull back the fitting to ensure fittings lugs have properly located in conduit groove.

Fitting Removal

Apply the tool over the conduit.

Align with fitting lugs and push tool into fitting.

Holding the removal tool, pull the fitting from the conduit.

Hints & Tips

Ensure the cutting of the conduit is square and the cut remains in the 'valley' of the circumference. Adaptalok fittings can only be removed by fitting the fitting tabs with a small screwdriver and easing the fitting off the conduit. The seal assembly is not damaged if this method is used to upgrade performance from IP67 to IP68.

Do's and Don'ts:

- Use the Kwikcut cutting tool or a fine-tooth hacksaw. **Note:** do not use a utility knife to cut conduit for use with Adaptalok & ATS fitting as IP integrity cannot be maintained.

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Kwikcut, Swingcut, Cut-Vice & Rotocut

Cutting Tools

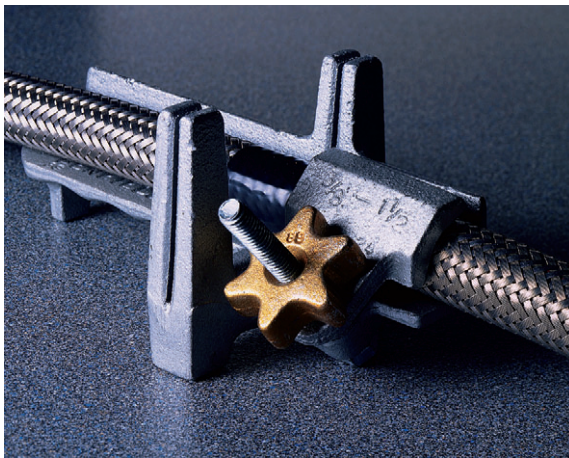
Product Characteristics

Type Cut -Vice

Description

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

Example



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.

Part No. CUT-VICE

Rotocut

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



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.

Part No. ROTOCUT-BLADE

Non-metallic Systems - with type PA, PI & PR Jumbo

Tools required

- Fine-tooth hacksaw

Cutting the conduit

Optional Sealing Kit

Fitting Assembly 90° flange

Fitting Assembly straight flange

Hints & Tips

- Ensure the cutting of the conduit is square and the cut remains in the 'valley' or the corrugation.
- Remove any excess braid from the cut conduit.

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Adaptasteel metallic Systems - with type S, SS, SP, SN & LFH-SP

Tools required

- Fine-tooth hacksaw and Cut-vice
- Rotocut
- Adjustable grips or spanners
- Utility knife

Cutting the conduit

Fitting Assembly types A & B

Fitting Assembly type M

Hints & Tips

- If using Rotocut with covered conduit, use utility knife to cut through the sheath. A clean, square cut will ease subsequent fitting assembly.

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Accessories Cable Glands & Terminal Blocks



Range Overview

As a brand Elkay products have been in existence for over 75 years. We have incorporated some of their top selling items within this catalogue to give you the opportunity to view a comprehensive range of complementary products. Incorporating high quality design and manufacture, products include cable glands, terminal blocks, low profile DIN rail terminals and accessories.

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.

Terminal Blocks

New from Adaptaflex is a range of general usage and OEM terminal blocks.

The general purpose 12 pole products are competitively priced, polyethylene terminals blocks that offer flexibility, versatility, are neutrally coloured and come with CE Approval. Available in 3, 5, 15 and 30 Amp loads they are easily cut into the required number of poles and can be mounted on a surface within an enclosure.

The new range of OEM terminal blocks is now available in standard 12-pole options. The new terminal blocks are moulded from a specially developed Polyamide 6/66 Copolymer, which meets the arduous glow wire tests as specified in International Standard IEC 60695-2-11 and IEC 60695-2-12. This range are available in eight size options and are ideal for use in appliances, lighting, industrial, domestic, and commercial applications and the white terminal blocks are available with raised or level base options.

System approvals available:



Standard

Cable Gland

Product Characteristics - To order quote part no. & colour - e.g. 248-B

Type

Standard Cable Gland

Description

General Purpose IP66 Cable Gland

Red RAL 3031 - **R**, White RAL 9010 - **W**, Grey RAL 7030 - **G**, Black RAL 9005 - **B**

Materials

Polyamide 6.6 with Nitrile Rubber Seal

Example



Part Number	Metric Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Depth (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity	Sealing Washer Part Number	Locknut Part Number
248	M16	10.0	6.0	4.0	25.0	22.0	19.0	100	96	92
250	M16	10.0	10.0	7.0	25.0	22.0	19.0	100	96	92
249	M20	11.0	6.0	4.0	25.0	25.0	19.0	100	97	93
251	M20	11.0	10.0	7.0	25.0	25.0	19.0	100	97	93
252	M20	11.0	13.0	8.0	30.5	26.0	23.0	100	97	93
264	M25	12.0	6.0	4.0	25.0	31.5	19.0	100	98	94
265	M25	12.0	10.0	7.0	25.0	31.5	19.0	100	98	94
254	M25	12.0	18.0	12.0	32.5	32.0	28.0	100	98	94
255	M32	13.0	24.0	18.0	35.0	41.0	36.0	100	98	95
256	M16	20.0	6.0	4.0	25.0	22.0	19.0	100	99	92
258	M16	20.0	10.0	7.0	25.0	22.0	19.0	100	96	92
257	M20	20.0	6.0	4.0	25.0	25.0	19.0	100	97	93
259	M20	20.0	10.0	7.0	25.0	25.0	19.0	100	97	93
266	M25	20.0	6.0	4.0	25.0	31.5	19.0	100	98	94
267	M25	20.0	10.0	7.0	25.0	31.5	19.0	100	98	94
262	M25	20.0	18.0	12.0	32.5	32.0	28.0	100	98	94
263	M32	20.0	24.0	18.0	35.0	41.0	36.0	100	99	95

Part Number	PG Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Depth (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity	Sealing Washer	Locknut
1585	PG9	8.0	6.0	4.0	25.0	22.0	19.0	100	249-001	LNPG9
1586	PG9	8.0	10.0	7.0	25.0	22.0	19.0	100	249-001	LNPG9
1587	PG11	8.0	6.0	4.0	25.0	25.0	19.0	100	249-002	LNPG11
1588	PG11	8.0	10.0	7.0	25.0	25.0	19.0	100	249-002	LNPG11
1589	PG13.5	8.0	6.0	4.0	25.0	25.0	19.0	100	249-003	LNPG13.5
1590	PG13.5	8.0	10.0	7.0	25.0	25.0	19.0	100	249-003	LNPG13.5
1591	PG13.5	8.0	13.0	8.0	30.5	26.0	23.0	100	249-003	LNPG13.5
1592	PG16	8.0	6.0	4.0	25.0	25.0	19.0	100	249-004	LNPG16
1593	PG16	8.0	10.0	7.0	25.0	25.0	19.0	100	249-004	LNPG16
1595	PG21	11.0	18.0	12.0	32.5	32.0	28.0	100	249-005	LNPG21

Type

With Twin Hole Bush

248-T	M16	10.0	2.5 X 3mm	25.0	22.0	19.0	100	96	92
256-T	M16	20.0	2.5 X 3mm	25.0	22.0	19.0	100	96	92
249-T	M20	11.0	2.5 X 3mm	25.0	25.0	19.0	100	97	93
257-T	M20	20.0	2.5 X 3mm	25.0	25.0	19.0	100	97	93
264-T	M25	12.0	2.5 X 3mm	25.0	31.5	19.0	100	98	94
266-T	M25	12.0	2.5 X 3mm	25.0	31.5	19.0	100	98	94

With Twin Hole Bush & Cord Grip

648-T	M16	10.0	2.5 X 3mm	35.0	22.0	19.0	100	96	92
656-T	M16	20.0	2.5 X 3mm	35.0	22.0	19.0	100	96	92
649-T	M20	11.0	2.5 X 3mm	35.0	25.0	19.0	100	97	93
657-T	M20	20.0	2.5 X 3mm	35.0	25.0	19.0	100	97	93
664-T	M25	12.0	2.5 X 3mm	35.0	31.5	19.0	100	98	94
666-T	M25	12.0	2.5 X 3mm	35.0	31.5	19.0	100	98	94

IP Rating

IP66

Temperature Range

Static Applications: -20°C to +90°C

Halogen Free

YES

Flamability

UL94 - V2

Approvals



Key Features

- Ideal for general use.
- IP66 Protection.
- Metric and PG versions.

Elkay's 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.

Euro Index, Index A2P

Cable Glands

Product Characteristics - To order quote part no. & colour - e.g. 200-8160-B

Type

Euro Index Cable Gland

Description

New Generation of IP68 Industrial 3 Part Plastic Cable Glands.

Red RAL 3031 - **R**, White RAL 9010 - **W**, Grey - **G**, Black RAL 9005 - **B**, Dark Grey RAL 7001 - **DG**

Materials

Polyamide 6.6 with Nitrile Rubber Seal

Example



Part Number	Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Depth (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity
ESM12-10x	M12	8.0	6.5	2.0	23.0	19.0	17.0	100
ESM16-11x	M16	9.0	10.0	4.0	25.5	23.5	21.0	100
ESM20-12x	M20	10.0	12.0	6.0	27.0	27.0	24.0	100
ESM20-13x	M20	10.0	14.0	10.0	28.5	30.0	27.0	100
ESM25-14x	M25	11.0	18.0	13.0	29.0	33.0	30.0	100
ESM32-15x	M32	12.0	25.0	17.0	37.0	45.5	41.0	50
ESM40-16x	M40	13.0	32.0	24.0	42.0	55.5	50.0	25
ESP07-10x	Pg 7	8.0	6.5	2.0	23.0	19.0	17.0	100
ESP09-11x	Pg 9	8.0	10.0	4.0	25.5	23.5	21.0	100
ESP11-12x	Pg 11	8.0	2.0	6.0	27.0	27.0	24.0	100
ESP13.5-12x	Pg 13.5	9.0	12.0	6.0	27.0	27.0	24.0	100
ESP16-13x	Pg 16	10.0	14.0	10.0	28.5	30.0	27.0	100
ESP21-14x	Pg 21	11.0	18.0	13.0	29.0	33.0*	30.0*	100
ESP29-15x	Pg 29	11.0	25.0	17.0	37.0	45.5	41.0	50
ESP36-16x	Pg 36	13.0	32.0	24.0	42.0	55.5*	50.0*	25

Note. Wholesaler Packs available on this range. Pack Qty 100 Glands & Locknuts.
Add WP to Part No. when ordering

Index A2P Cable Gland

High Performance IP68 upto 15bar Cable Glands.

Red RAL 3031 - **R**, White RAL 9010 - **W**, Grey - **G**, Black RAL 9005 - **B**

Polyamide 6.6 with Nitrile Rubber Seal



Part Number	Thread	Thread Length (mm)	Gland Depth (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity	Sealing Washer	Locknut
200-8160	M16	15.0	24.0	8.0	4.0	26.0	24.0	50	96	92-B
200-8240	M20	15.0	24.0	8.0	4.0	26.0	24.0	50	97	93-B
200-8320	M20	15.0	25.0	10.0	7.5	30.0	27.0	50	97	93-B
200-8400	M20	15.0	26.0	13.2	9.5	35.5	32.0	50	97	93-B
200-8560	M25	15.0	28.0	18.0	13.0	40.0	36.0	25	98	94-B
200-8640	M32	15.0	31.0	25.0	17.5	51.0	46.0	10	99	95-B
200-8720	M40	15.0	31.0	31.5	24.5	61.0	55.0	10	121	111-B
200-8800	M50	15.0	31.0	37.0	31.0	78.0	70.0	5	122	112-B
200-8880	M50	15.0	31.0	43.0	36.5	78.0	70.0	5	122	112-B
201-8000	Pg9	8.0	24.0	8.0	4.0	26.0	24.0	50	249-001	LNPg9-LG
201-8080	Pg11	8.0	25.0	10.0	7.5	30.0	27.0	50	249-002	LNPg11-LG
201-8160	Pg13.5	9.0	26.0	13.2	9.5	35.5	32.0	50	249-003	LNPg13.5-LG
201-8240	Pg16	10.0	26.0	13.2	9.5	35.5	32.0	50	249-004	LNPg16-LG
201-8320	Pg21	11.0	28.0	18.0	13.0	40.0	36.0	25	249-005	LNPg21-LG
201-8400	Pg29	11.0	31.0	25.0	17.5	51.0	46.0	10	249-006	LNPg29-LG

IP Rating

IP68 (5bar 30mins)

Temperature Range

Static Applications: -20°C to +90°C

Halogen Free

YES

Flamability

UL94 - V2

Approvals



Key Features

- New generation of industrial plastic cable glands.
- Smaller working envelope on bulkhead or panel.
- Improved cable sealing and retention.
- Wide cable acceptance range for each gland size.
- Designed to EN 50262:1999.
- Integral claw design prevents cable twisting during installation.
- Moulded sealing ring increases sealing performance.
- Glands can be packaged and branded to customers' specifications.
- Complies with international approvals.

Index Claw, Flat Cable & Heat Trace

Cable Glands

Product Characteristics - To order quote part no. & colour - e.g. 248-B

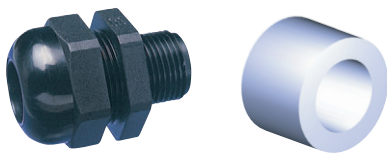
Type Index Claw Cable Gland

Description High Performance IP68 Cable Gland

Black RAL 9005 - B

Materials Polyamide 6.6 with Nitrile Rubber Seal

Example



Part Number	Metric Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Depth (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity	Sealing Washer	Locknut
211-9020	M16	15.0	9.0	5.0	24.0	26.0	24.0	50	96	92
211-9060	M20s	15.0	11.0	7.0	25.0	30.0	27.0	50	97	93
211-9100	M20	15.0	13.0	8.0	26.0	35.5	32.0	50	97	93
211-9140	M20b	15.0	16.0	12.0	26.0	35.5	32.0	50	97	93
211-9180	M20/25	15.0	16.0	12.0	26.0	35.5	32.0	50	98	94
211-9220	M25	15.0	20.5	16.0	28.0	40.0	36.0	25	98	94

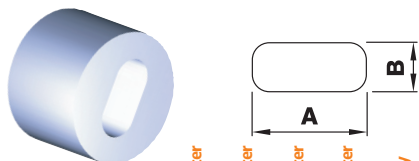
Type Index Flat Cable Gland

Description High Performance Flat Cable IP68 Cable Gland

Black RAL 9005 - B

Materials Polyamide 6.6 with Nitrile Rubber Seal

Example



Part Number	Thread	Thread Length (mm)	Cable Diameter A. Max (mm)	Cable Diameter B. Max (mm)	Cable Diameter A. Min (mm)	Cable Diameter B. Min (mm)	Pack Quantity	Sealing Washer	Locknut
204-8160	M20	15.0	10.5	5.5	8.0	4.0	50	97	93
204-8240	M20	15.0	13.5	9.0	10.0	5.0	50	97	93
204-8320	M25	15.0	18.0	9.0	13.0	6.0	25	98	94
204-8400	M32	15.0	25.0	12.5	21.0	7.0	10	99	95
205-8120	Pg11	8.0	10.5	5.5	8.0	4.0	50	249-002	LNPG11
205-8200	Pg13.5	9.0	13.5	9.0	10.0	5.0	50	249-003	LNPG13.5
205-8280	Pg16	10.0	13.5	9.0	10.0	5.0	50	249-004	LNPG16
205-8360	Pg21	11.0	18.0	9.0	13.0	6.0	25	249-005	LNPG21
205-8440	Pg29	11.0	25.0	12.5	21.0	7.0	10	249-006	LNPG29

IP Rating IP68 (5bar 30mins)

Key Features

Temperature Range Static Applications: -20°C to +90°C* *(+200°C for Heat Trace)

Halogen Free YES

Flamability UL94 - V2



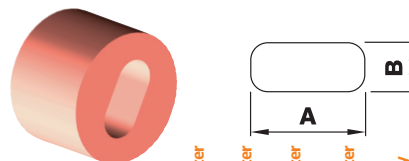
Approvals

Index Heat Trace Cable Gland

High Performance, High Temperature up to +200°C IP68 Cable Gland

Black RAL 9005 - B

Materials Polyamide 6.6 with Nitrile Rubber Seal



Part Number	Thread	Thread Length (mm)	Cable Diameter A. Max (mm)	Cable Diameter B. Max (mm)	Cable Diameter A. Min (mm)	Cable Diameter B. Min (mm)	Pack Quantity	Sealing Washer	Locknut
204-9160	M20	15.0	10.5	5.5	8.0	4.0	50	97	93
204-9240	M20	15.0	13.5	9.0	10.0	5.0	50	97	93
204-9320	M25	15.0	18.0	9.0	13.0	6.0	25	98	94
204-9400	M32	15.0	25.0	12.5	21.0	7.0	10	99	95
205-9120	Pg11	8.0	10.5	5.5	8.0	4.0	50	249-002	LNPG11
205-9200	Pg13.5	9.0	13.5	9.0	10.0	5.0	50	249-003	LNPG13.5
205-9280	Pg16	10.0	13.5	9.0	10.0	5.0	50	249-004	LNPG16
205-9360	Pg21	11.0	18.0	9.0	13.0	6.0	25	249-005	LNPG21
205-9440	Pg29	11.0	25.0	12.5	21.0	7.0	10	249-006	LNPG29

- Ideal for High Performance use.
- IP68 Protection at 5 bar.
- Metric and PG versions.
- For Cable up to +200°C in heat trace applications.

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.

75

Index EMC

Cable Glands

Product Characteristics

Type
Description
Materials
Example

Index EMC Cable Gland

High Performance IP68 Cable Gland

Black RAL 9005 - B

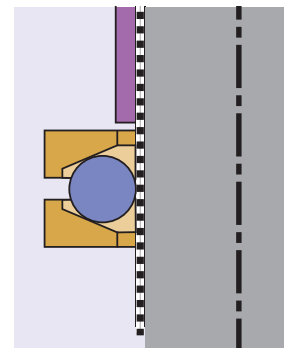
Nickel Plated Brass, Stainless Steel Spring, Santoprene Rubber Seal



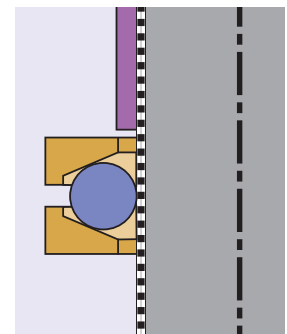
Part Number	Metric Thread	Type	Thread Length (mm)	Cable Diameter Max (mm)	Across Flats Dimension (mm)	Cable Diameter Max (mm)	Gland Diameter Min (mm)	Screen Diameter Max (mm)	Screen Diameter Min (mm)	Pack Quantity	Locknut
260-1050	M16	A	10.0	26.7	24.0	9.0	6.0	7.5	3.5	1	260-0500
260-1100	M16	A	10.0	26.7	24.0	11.0	7.0	8.5	4.0	1	260-0500
260-1200	M20	A	10.0	26.7	24.0	9.0	6.0	7.5	3.5	1	260-0600
260-1250	M20	A	10.0	26.7	24.0	11.0	7.0	8.5	4.0	1	260-0600
260-1300	M25	A	11.0	33.5	30.0	9.5	6.0	8.5	6.0	1	260-0650
260-1350	M25	A	11.0	33.5	30.0	11.0	6.0	9.0	6.0	1	260-0650
260-1700	M32	A	13.0	43.5	40.0	26.0	22.0	21.0	15.0	1	260-0700
260-1750	M40	A	14.0	54.0	50.0	29.0	25.0	25.0	18.0	1	260-0750
260-1850	M50	A	15.0	65.0	60.0	37.0	32.0	33.0	29.0	1	260-0800
260-1900	M50	A	15.0	65.0	60.0	41.0	37.0	33.0	29.0	1	260-0800
261-4020	Pg13.5	A	10.0	26.7	24.0	9.0	6.0	7.5	3.5	1	261-0200
261-4040	Pg13.5	A	10.0	26.7	24.0	11.0	7.0	8.5	4.0	1	261-0200
261-5020	Pg16	A	11.0	33.5	30.0	10.5	6.0	9.0	6.0	1	261-0250
261-5060	Pg16	A	11.0	33.5	30.0	14.0	10.0	13.0	8.0	1	261-0250
261-6080	Pg21	A	11.0	38.5	35.0	20.0	17.0	17.5	12.5	1	261-0300
261-7000	Pg29	A	13.0	43.5	40.0	23.0	19.0	21.0	15.0	1	261-0350
261-7050	Pg29	A	13.0	43.5	40.0	26.0	22.0	21.0	15.0	1	261-0350
261-8000	Pg36	A	14.0	54.0	50.0	29.0	25.0	25.0	18.0	1	261-0400
261-8050	Pg36	A	14.0	54.0	50.0	32.0	29.0	30.5	24.0	1	261-0400
261-9000	Pg42	A	15.0	66.0	60.0	41.0	37.0	33.0	29.0	1	261-0450
260-1000	M16	B	10.0	26.7	24.0	6.0	4.0	6.0	3.0	1	260-0500
260-1150	M20	B	10.0	26.7	24.0	6.0	4.0	6.0	3.0	1	260-0600
260-1400	M25	B	11.0	33.5	30.0	11.0	6.0	10.5	6.0	1	260-0650
260-1450	M25	B	11.0	33.5	30.0	14.0	10.0	13.0	8.0	1	260-0650
260-1550	M25	B	11.0	33.5	30.0	18.0	14.0	17.5	12.5	1	260-0650
260-1650	M32	A/B	13.0	43.5	40.0	23.0	19.0	21.0	15.0	1	260-0700
260-1800	M40	B	14.0	54.0	50.0	32.0	29.0	30.5	24.0	1	260-0750
261-4000	Pg13.5	B	10.0	26.7	24.0	6.0	4.0	6.0	3.0	1	261-0200
261-5000	Pg16	B	11.0	33.5	30.0	9.5	6.0	9.0	6.0	1	261-0250
261-6060	Pg21	B	11.0	38.5	35.0	18.0	14.0	17.5	12.5	1	261-0300

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

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



Type A



Type B

IP Rating

IP68 at 10 bar

Temperature Range

Static Applications: -40°C to +135°C

Halogen Free

YES

Flamability

UL94 - V2

Approvals



Key Features

- Screen continues into enclosure.
- IP68 Protection at 10 bar.
- Metric and PG versions.
- For use with systems conforming to EN50 082 - 1/2.

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.

Miniature & Surface Mounted

Cable Glands

Product Characteristics - To order quote part no. & colour - e.g. 248-B

Type

Description

Materials

Example

Miniature Gland

Small Cable Size IP66 Gland

Black RAL 9005 - **B**, White RAL 9010 - **W**

Polyamide 6.6 with Nitrile Rubber Seal



Part Number	Metric Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Depth (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity	Sealing Washer	Locknut
238	M10	8.0	5.0	2.0	21.0	17.0	15	100	68	78
240	M10	8.0	7.0	5.0	21.0	17.0	15	100	68	78
244	M10	20.0	5.0	2.0	21.0	17.0	15	100	68	78
246	M10	20.0	7.0	5.0	21.0	17.0	15	100	68	78
239	M13	8.0	5.0	2.0	21.0	17.0	15	100	69	79
241	M13	8.0	7.0	5.0	21.0	17.0	15	100	69	79
245	M13	20.0	5.0	2.0	21.0	17.0	15	100	69	79
247	M13	20.0	7.0	5.0	21.0	17.0	15	100	69	79

Surface Mounted Cable Gland

Flat Surface Mounting IP66 Cable Gland

Black RAL 9005 - **B**

Polyamide 6.6 with Nitrile Rubber Seal



Part Number	Metric Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Gland Depth (mm)	Gland Diameter (mm)	Across Flats Dimension (mm)	Pack Quantity	Sealing Washer	Locknut
276	-	-	10.0	7.0	25.0	-	19.0	100	-	-
277	-	-	13.0	8.0	25.0	-	23.0	100	-	-
275-T	-	-	Bore 3.5 x 2.0		25.0	-	19.0	100	-	-

IP Rating

IP66

Temperature Range

Static Applications: -20°C to +90°C* * (+200°C for Heat Trace)

Halogen Free

YES

Flamability

UL94 - V2

Approvals



Type

Surface Mounted Cable Gland

Part Number	Description
275-T	c/w Plain Bush
675-T	c/w Cord Grip Bush

Key Features

Miniature cable glands are ideal for small cable sizes and offer IP66 protection. They are available in Black (RAL 9005) or White (RAL 9010). Miniature cable glands are available with either long or short threads. Locknuts and sealing washers are available as separate items.

Surface mounted cable glands can be mounted to any flat surface using the two fixing holes in the flange.

Cord Grip Brushes

Cable Glands

Product Characteristics

Type
Description
Materials
Example

Threaded Cord Grips

Black RAL 9005 - B

Polyamide 6.6



Part Number	Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Across Flats Dimension (mm)	Grip Depth (mm)	Pack Quantity	Sealing Washer	Locknut
743-B	M16	9.0	11.0	3.5	19.0	23.5	100	96	92-B
744-B	M20	12.0	14.5	4.0	23.0	29.5	100	97	93-B
745-B	M25	12.0	18.0	8.0	27.0	29.5	100	98	94-B
746-B	Pg9	9.0	11.0	3.5	19.0	23.5	100	207-401	LNPG9
747-B	Pg13.5	12.0	14.5	4.0	23.0	29.5	100	207-403	LNPG13.5
748-B	Pg16	12.0	18.0	8.0	27.0	27.5	100	207-404	LNPG16

Type

Cable Gland with Threaded Cord Grip

Part Number	Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Part Number	Thread	Thread Length (mm)	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Pack Quantity	Sealing Washer	Locknut
648-B	M16	10.0	6.0	4.0	656-B	M16	20.0	6.0	4.0	100	96	92
650-B	M16	10.0	10.0	7.0	658-B	M16	20.0	10.0	7.0	100	96	92
649-B	M20	11.0	6.0	4.0	657-B	M20	20.0	6.0	4.0	100	97	93
651-B	M20	11.0	10.0	7.0	659-B	M20	20.0	10.0	7.0	100	97	93
652-B	M20	11.0	13.0	8.0	660-B	M20	20.0	13.0	8.0	100	97	93
664-B	M25	12.0	6.0	4.0	666-B	M25	20.0	6.0	4.0	100	98	94
665-B	M25	12.0	10.0	7.0	667-B	M25	20.0	10.0	7.0	100	98	94
654-B	M25	12.0	18.0	12.0	652-B	M25	20.0	18.0	12.0	100	98	94

IP Rating

IP66

Temperature Range

Static Applications: -20°C to +90°C

Halogen Free

YES

Flamability

UL94 - V2

Approvals



Key Features

- Metric and Pg sizes available.
- Cable gland version offers IP66 protection.

PG - Metric Adaptors & Reducers

Cable Glands

Product Characteristics - To order quote part no. & colour - e.g. 248-B

Type PG - Metric Adaptors & Reducers

Description

Easy to Install Adaptors & Reducers

TYPE A & B - Black RAL 9005 - **B**, TYPE C - Grey RAL 7035 - **GR**

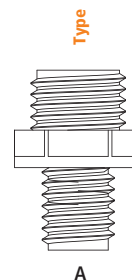
Materials

TYPE A & B - Polyamide 6.6. TYPE C - Polystyrene

Example

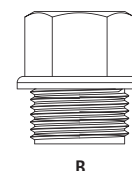


Part Number	Type	Cable Diameter Min (mm)	Male Thread	Female Thread	Pack Quantity	Sealing Washer	Locknut
464*	A	Metric - Metric Adaptor	M13	M10* (male)	100	69	79
451	B	Metric - Metric Adaptor	M20	M16	100	97	93
468	B	Metric - Metric Adaptor	M25	M16	100	98	94
474	B	Pg - Metric Adaptor	Pg9	M16	100	249-001	LNPG9
475	B	Pg - Metric Adaptor	Pg11	M16	100	249-002	LHNPg11
476	B	Pg - Metric Adaptor	Pg13.5	M16	100	249-003	LNPG13.5
477	B	Pg - Metric Adaptor	Pg16	M16	100	249-004	LNPG16
478	B	Pg - Metric Adaptor	Pg13.5	M20	100	249-003	LNPG13.5
480	B	Pg - Metric Adaptor	Pg13.5	M20	100	249-003	LNPG13.5



Conduit Adaptor

294-403	C	Conduit Adaptor	Pg16	Pg13.5	30	249-004	SUPPLIED
294-404	C	Conduit Adaptor	Pg16	Pg16	30	249-004	SUPPLIED
295-404	C	Conduit Adaptor	Pg21	Pg16	25	249-005	SUPPLIED
295-405	C	Conduit Adaptor	Pg21	Pg21	20	249-005	SUPPLIED
284-416	C	Conduit Adaptor	Pg16	M16	30	249-004	SUPPLIED
284-420	C	Conduit Adaptor	Pg16	M20	30	249-004	SUPPLIED
285-420	C	Conduit Adaptor	Pg21	M20	25	249-005	SUPPLIED
285-425	C	Conduit Adaptor	Pg21	M25	25	249-005	SUPPLIED
285-432	C	Conduit Adaptor	Pg21	M32	15	249-005	SUPPLIED



IP Rating

n/a

Temperature Range

Static Applications: -20°C to +90°C - Type A & B
Static Applications: -10°C to +75°C - Type C

Key Features

- Thread adaptors/reducers.
- Conduit adaptors.
- Easy to install.

Halogen Free

YES

Flamability

UL94 - V2

Approvals



Cord Grip Brushes

Cable Glands

Product Characteristics

Type
Description
Materials
Example

Stopping Plugs

General Use Stopping Plug
Black RAL 9005 - **B**, Grey - **G**
Polyamide 6.6



Part Number	Thread	Plug Diameter (mm)	Plug Depth (mm)	Head Depth (mm)	Pack Quantity
64-B	M16	19.0	14.0	5.0	100
65-B	M20	23.0	18.0	6.0	100
66-B	M25	28.0	18.0	7.0	100
67-B	M32	36.0	19.0	3.0	100
313-G	Pg11	22.0	9.5	-	100
314-G	Pg13.5	25.0	9.5	-	100
315-G	Pg16	27.0	9.5	-	100

Cord Grips

Metric Cord Grips
Black RAL 9005 - **B**, White - **W**
See Table Below



Part Number	Thread	Grip Diameter Max (mm)	Material	Pack Quantity
750	M10	6.4	ABS	500
767	M13	10.7	ABS	500
765	M10	6.8	Acetal	1000
713**	M10	6.8	Brass	500
896-B	M13	9.2	ABS	1000
714-B	M10	9.4	ABS	1000

** Brass Locknut

Flex Protection Cable Gland

Metric & Pg Sealing Washers
Black RAL 9005 - **B**
Polyamide 6.6



Part Number	Thread	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Pack Quantity
M-16P-07	M16	7.0	5.0	10
M-16P-09	M16	9.0	6.0	10
M-20P-11	M20	11.0	7.0	10
M-20P-13	M20	12.7	8.0	10

Type

Clamping Sets

Type

Clamping Bushes

Part Number	Thread	Clamp Depth (mm)	Material	Material	Material	Across Flats Dimension (mm)	Pack Quantity
303	M16	13.0	9.0	11.0	6.0	4.0	100
304	M16	13.0	9.0	11.0	10.0	7.0	100
305	M20	15.5	9.0	14.5	13.0	8.0	100
306	M25	17.5	10.0	19.0	12.0	18.0	100
307	M32	20.0	10.0	25.0	18.0	24.0	100

Part Number	Thread	Cable Diameter Max (mm)	Cable Diameter Min (mm)	Cable Diameter Min (mm)	Across Flats Dimension (mm)	Pack Quantity
54-B	M13*	11.0	-	8.0	15.0	100
46-B	M16	14.0	5.0	10.5	19.0	100
47-B	M20	18.0	6.0	13.0	23.0	100
48-B	M25	18.0	6.0	19.0	28.0	100
49-B	M32	19.0	7.0	25.0	36.0	100

IP Rating n/a
Temperature Range **Static Applications:** -10°C to +90°C
Halogen Free YES
Flamability UL94 - V2
Approvals 
Key Features • Ideal for general use.
• Metric and Pg versions.

Adaptaflex range of Stopping Plugs are ideal for sealing cable entries.

IP Rating n/a
Temperature Range **Static Applications:** -20°C to +90°C
Halogen Free YES
Flamability UL94 - V2
Approvals 
Key Features • Ideal for General Use.
• Metric version.

Adaptaflex offer a wide range of Locknuts and Sealing Washers including both Metric and Pg sizes manufactured in a range of colours and styles.

Type 1512 & 4012 Polyamide

Terminal Blocks

Product Characteristics

Type

Type 1512

Description

2.5mm² Polyamide Terminal Blocks

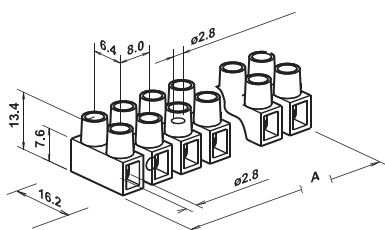
Materials

White Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws

Example



Dimensions



Part Number	Base	Wire Protector	'T' Insert	No. Poles	Width A (mm)	Rating	Pack Quantity
1512LE	LEVEL	-	-	12 POLE	94	14A	50
1512/151E	RAISED	YES	-	12 POLE	94	14A	50
1512LTE	LEVEL	-	YES	12 POLE	94	14A	50
1512TE	RAISED	-	YES	12 POLE	94	14A	50

Nominal Clamping Area

2.5mm²

Nominal Voltage

450V

Max Ambient Temp

PA T85

Fire Performance

Halogen Free

Flamability

UL94 - V2

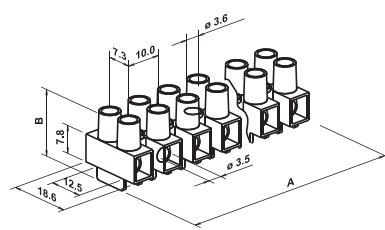
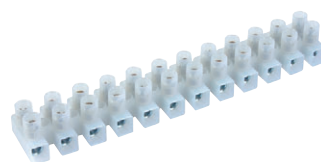
Approvals



Type 4012

4mm² Polyamide Terminal Blocks

White Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws



Part Number	Base	Wire Protector	'T' Insert	No. Poles	Width A (mm)	Height B (mm)	Rating	Pack Quantity
4012LE	LEVEL	-	-	12 POLE	117	15	25A	50
4012/401E	RAISED	YES	-	12 POLE	117	18.5	25A	50
4012LT/402E	LEVEL	YES	YES	12 POLE	117	15	25A	50
4012TE	RAISED	-	YES	12 POLE	117	18.5	25A	50

4mm²

450V

PA T85

Halogen Free

UL94 - V2



Type 6012 & 10012

Terminal Blocks

Product Characteristics

Type
Description
Materials
Example

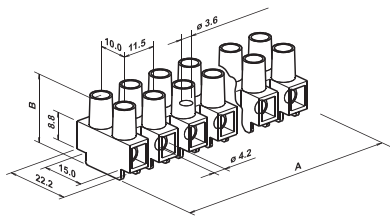
Type 6012

6mm² Polyamide Terminal Blocks

White Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws



Dimensions

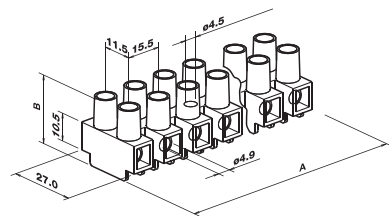


Part Number	Base	Wire Protector	T' Insert	No. Poles	Width A (mm)	Height B (mm)	Rating	Pack Quantity
6012/601E	RAISED	YES	-	12 POLE	133.7	20.8	32A	25
6012TE	RAISED	-	YES	12 POLE	133.7	20.8	32A	25
6012L/601E	LEVEL	YES	-	12 POLE	133.7	19.3	32A	25
6012LE	LEVEL	-	-	12 POLE	133.7	19.3	32A	25

Type 10012

10mm² Polyamide Terminal Blocks

White Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws



Part Number	Base	Wire Protector	T' Insert	No. Poles	Width A (mm)	Height B (mm)	Rating	Pack Quantity
10012/1001	RAISED	YES	-	12 POLE	180	28	45A	10
10012L	LEVEL	-	-	12 POLE	180	22	45A	10
10012L/1001	LEVEL	YES	-	12 POLE	180	22	45A	10
10012LT	LEVEL	-	-	12 POLE	180	22	45A	10
10012T	RAISED	-	-	12 POLE	180	28	45A	10
10012	RAISED	-	-	12 POLE	180	28	45A	10

Nominal Clamping Area
Nominal Voltage
Max Ambient Temp
Fire Performance
Flamability
Approvals

6mm²

450V

PA T85

Halogen Free

UL94 - V2



10mm²

450V

PA T85

Halogen Free

UL94 - V2



Type 16012 Polyamide & Type ELK Polyethylene Terminal Blocks

Product Characteristics

Type 16012

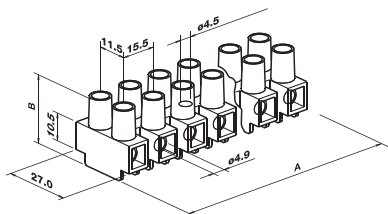
Description 16mm² Polyamide Terminal Blocks

Materials White Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws

Example



Dimensions

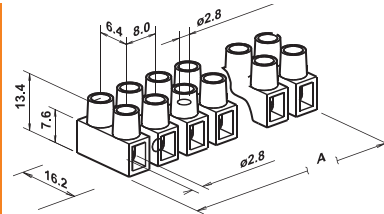


Part Number	Base	Wire Protector	T' Insert	No. Poles	Width A (mm)	Height B (mm)	Rating	Pack Quantity
16012	RAISED	-	-	12 POLE	180	28	60A	10
16012LT	LEVEL	-	-	12 POLE	180	22	60A	10
16012/1601	RAISED	YES	-	12 POLE	180	28	60A	10
16012L/1601	LEVEL	YES	-	12 POLE	180	22	60A	10
16012T	RAISED	-	-	12 POLE	180	28	60A	10
16012L	LEVEL	-	-	12 POLE	180	22	60A	10

Type ELK

Description 2.5mm² Polyethylene Economy Range Terminal Blocks

Materials White Polyethylene, Galvanised Brass Inserts & Plated Steel Screws



Part Number	Base	Max CSA	T' Insert	No. Poles	Nominal Voltage	Rating	Pack Quantity
ELK3A-12	LEVEL	4	-	12 POLE	380	3A	10
ELK5A-12	LEVEL	6	-	12 POLE	380	5A	10
ELK15A-12	LEVEL	10	-	12 POLE	400	15A	10
ELK30A-12	LEVEL	16	-	12 POLE	400	30A	10

Nominal Clamping Area 16mm²

Nominal Voltage 450V

Max Ambient Temp PA T85

Fire Performance Halogen Free

Flamability UL94 - V2

Approvals 

Nominal Clamping Area 2.5mm²

Nominal Working 80°C

Approvals 

Aquasafe Waterproof Plug and Connector



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 acceptance sizes, whilst maintaining a compact working envelope. 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 standard, 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.

Sealing Caps (IP68 - 16A)

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.

System approvals available:



I E C



Aquasafe

In-Line Range, Bulkhead, Sealing Caps & Switched Enclosure Range

Product Characteristics

Type

In-Line Aqua-safe

Description

IP68 - 16A Standard In_Line Product

Black

Materials

Plug & Socket Connector: Polycarbonate. Outer Housing: Glass Filled Nylon with Nitrile Rubber Seal

Example



Part Number	Description	Connector Details	Cable Range	Pack Quantity
185-9000	In-Line Waterproof Connector Assembly	3 Pole Plug & Socket	5-9mm	1
185-9100	In-Line Waterproof Connector Assembly	3 Pole Plug & Socket	8-13mm	1
185-9200	In-Line Waterproof Connector Assembly	3 Pole Plug & Socket	12-16mm	1
185-OA1011-P030-1	In-Line Waterproof Female Housing	3 Pole Plug	5 - 9mm	1
185-OA1021-P030-1	In-Line Waterproof Female Housing	3 Pole Plug	8 - 13mm	1
185-OA1031-P030-1	In-Line Waterproof Female Housing	3 Pole Plug	12 - 16mm	1
185-1A1011-S030-1	In-Line Waterproof Male Housing	3 Pole Socket	5 - 9mm	1
185-1A1021-S030-1	In-Line Waterproof Male Housing	3 Pole Socket	8 - 13mm	1
185-1A1031-S030-1	In-Line Waterproof Male Housing	3 Pole Socket	12 - 16mm	1

Type

Bulkhead Aqua-safe

Description

IP68 - 16A Standard Bulkhead Product

Black

Materials

Plug & Socket Connector: Polycarbonate. Outer Housing: Glass Filled Nylon with Nitrile Rubber Seal

Example



Part Number	Description	Connector Details	Cable Range	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

IP Rating

IP68 (upto 2 bar 30mins)

Temperature Range

Static Applications: -25°C to +80°C

Halogen Free

YES

Flamability

UL94 - V2

Approvals

CE IEC 61984

Aquasafe

In-Line Range, Bulkhead, Sealing Caps

Product Characteristics

Type
Description
Example

Sealing Caps
IP68 - 16A Sealing Caps
Black



Part Number	Description	Part Number
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



A to Z Listing

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
713	P80	185-9200	P85	241-B	P77	261-4020	P76	43013	P84
10012	P82	200-8160	P74	244-B	P77	261-4040	P76	43014	P84
10012/1001	P82	200-8240	P74	245-B	P77	261-5000	P76	43015	P84
10012L	P82	200-8320	P74	246-B	P77	261-5020	P76	43016	P84
10012LT	P82	200-8400	P74	247-B	P77	261-5060	P76	43020/0.5MS	P84
10012T	P82	200-8560	P74	248-B	P73	261-6060	P76	43021/0.5MS	P84
1512/151E	P81	200-8640	P74	248T-B	P73	261-6080	P76	43022/0.5MS	P84
1512LE	P81	200-8720	P74	248-W	P73	261-7000	P76	43023/0.5MS	P84
1512LTE	P81	200-8720	P74	249-B	P73	261-7050	P76	43024/0.5MS	P84
1512TE	P81	201-8000	P74	249B-WP	P73	261-8000	P76	43025/0.5MS	P84
1585	P73	201-8080	P74	249T-B	P73	261-8050	P76	43400	P84
1586	P73	201-8160	P74	250-B	P73	261-9000	P76	43401	P84
1587	P73	201-8240	P74	250B-WP	P73	261-B	P73	43402	P84
1588	P73	201-8320	P74	250W-WP	P73	262-B	P73	43403	P84
1589	P73	201-8400	P74	251-B	P73	263-B	P73	43406	P84
1590	P73	204-8160	P75	251B-WP	P73	264-B	P73	43442	P84
1591	P73	204-8240	P75	251W-WP	P73	265-B	P73	43450	P84
1592	P73	204-8320	P75	252-B	P73	266-B	P73	43451	P84
1593	P73	204-8400	P75	252B-WP	P73	266T-B	P73	43454	P84
1595	P73	204-9160	P75	252W-WP	P73	267-B	P73	43457	P84
16012	P83	204-9240	P75	254-B	P73	267T-B	P73	43458	P84
16012/1601	P83	204-9320	P75	254B-WP	P73	275-B	P77	43910/F	P84
16012L	P83	204-9400	P75	254W-WP	P73	275-T	P77	46-B	P80
16012L/1601	P83	205-8120	P75	255-B	P73	276-B	P77	474-B	P79
16012LT	P83	205-8200	P75	256-B	P73	277-B	P77	475-B	P79
16012T	P83	205-8280	P75	256T-B	P73	284-416	P79	476-B	P79
185-0A1011-P031-1	P85	205-8360	P75	257-B	P73	284-420	P79	48-B	P80
185-0A1011-S030-1	P85	205-8440	P75	257T-B	P73	285-420	P79	49-B	P80
185-0A1021-P030-1	P85	205-9120	P75	258-B	P73	285-425	P79	54-B	P80
185-0A1031-P030-1	P85	205-9200	P75	259-B	P73	285-432	P79	6012/601E	P82
185-0B1000-P030-1	P85	205-9280	P75	260-1000	P76	294-403	P79	6012L/601E	P82
185-0B1000-S030-1	P85	205-9360	P75	260-1050	P76	294-404	P79	6012LE	P82
185-0E1000-P030-1	P85	205-9440	P75	260-1100	P76	295-404	P79	6012TE	P82
185-0E1000-P031-1	P85	209-9000	P75	260-1150	P76	295-405	P79	648-B	P78
185-0E1000-S030-1	P85	209-9040	P75	260-1200	P76	303-B	P80	648T-B	P73
185-1A1011-P030-1	P85	209-9080	P75	260-1250	P76	304-B	P80	649-B	P78
185-1A1011-S030-1	P85	209-9120	P75	260-1300	P76	305-B	P80	649T-B	P73
185-1A1021-S030-1	P85	209-9160	P75	260-1350	P76	306-B	P80	64-B	P80
185-1A1031-S030-1	P85	209-9200	P75	260-1400	P76	307-B	P80	650-B	P78
185-1B1000-P030-1	P85	211-9020	P75	260-1450	P76	313-G	P80	651-B	P78
185-1B1000-S030-1	P85	211-9060	P75	260-1550	P76	314-G	P80	652-B	P78
185-1E1000-P030-1	P85	211-9100	P75	260-1650	P76	315-G	P80	654-B	P78
185-1E1000-P032-1	P85	211-9140	P75	260-1700	P76	4012/401E	P81	656T-B	P73
185-1E1000-S030-1	P85	211-9180	P75	260-1750	P76	4012LE	P81	657T-B	P73
185-6100	P86	211-9220	P75	260-1800	P76	4012LT/402E	P81	65-B	P80
185-6200	P86	238-B	P77	260-1850	P76	4012TE	P81	664-B	P78
185-9000	P85	239-B	P77	260-1900	P76	43010	P84	664T-B	P73
185-9100	P85	240-B	P77	261-4000	P76	43011	P84	665-B	P78

A to Z Listing

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
666T-B	P73	AL10/PG9/A	P17	AL16/KM20/A	P18	AL16/U100/45/000620	P22	AL21/PG16/SFA	P21
66-B	P80	AL13/038/A	P17	AL16/M16/45	P18	AL16/U100/A/000620	P22	AL21/U075/45/000620	P22
67-B	P80	AL13/038/C90	P17	AL16/M16/A	P17	AL16/U100/C90/000620P22		AL21/U075/A/000620	P22
713	P80	AL13/FL/C90	P19	AL16/M16/C90	P17	AL16/U119/45/000620	P22	AL21/U075/C90/000620P22	
714-B	P80	AL13/M16/45	P18	AL16/M16/CS90	P20	AL16/U119/A/000620	P22	AL21/U088/45/000620	P22
743-B	P78	AL13/M16/A	P17	AL16/M16/CSF90	P21	AL16/U119/C90/000620P22		AL21/U088/A/000620	P22
744-B	P78	AL13/M16/C90	P17	AL16/M16/PPA	P39	AL16/U131/45/000620	P22	AL21/U088/C90/000620P22	
745-B	P78	AL13/M16/CS90	P20	AL16/M16/S45	P20	AL16/U131/A/000620	P22	AL21/U094/45/000620	P22
746-B	P78	AL13/M16/CSF90	P21	AL16/M16/SA	P20	AL16/U131/C90/000620P22		AL21/U094/A/000620	P22
747-B	P78	AL13/M16/PPA	P39	AL16/M16/SF45	P21	AL161313/Y	P18	AL21/U094/C90/000620P22	
748-B	P78	AL13/M16/S45	P20	AL16/M16/SFA	P21	AL16/A/U/BL	P19	AL21/U100/45/000620	P22
750-B	P80	AL13/M16/SA	P20	AL16/M20/45	P18	AL16RT	P41	AL21/U100/A/000620	P22
765-B	P80	AL13/M16/SF45	P21	AL16/M20/A	P17	AL21/050/A	P17	AL21/U100/C90/000620P22	
767-B	P80	AL13/M16/SFA	P21	AL16/M20/C90	P17	AL21/FL/45	P19	AL21/U113/45/000620	P22
896-B	P80	AL13/M20/A	P17	AL16/PF038/A	P17	AL21/FL/A	P19	AL21/U113/A/000620	P22
ACB10	P41	AL13/M20/A	P17	AL16/PF038/C90	P17	AL21/FL/C90	P19	AL21/U113/C90/000620P22	
ACB13	P41	AL13/PF038/A	P17	AL16/PF050/A	P17	AL21/KM20/A	P18	AL21/U119/45/000620	P22
ACB13/ST	P41	AL13/PF038/C90	P17	AL16/PF050/C90	P17	AL21/M20/45	P18	AL21/U119/A/000620	P22
ACB16	P41	AL13/PG11/A	P17	AL16/PG11/45	P18	AL21/M20/A	P17	AL21/U119/C90/000620P22	
ACB16/ST	P41	AL13/PG13/A	P17	AL16/PG11/A	P17	AL21/M20/C90	P17	AL21/U131/45/000620	P22
ACB21	P41	AL13/PG9/45	P18	AL16/PG11/C90	P17	AL21/M20/CS90	P20	AL21/U131/A/000620	P22
ACB21/ST	P41	AL13/PG9/A	P17	AL16/PG11/CS90	P20	AL21/M20/CSF90	P21	AL21/U131/C90/000620P22	
ACB28	P41	AL13/PG9/C90	P17	AL16/PG11/CSF90	P21	AL21/M20/PPA	P39	AL21/U138/45/000620	P22
ACB28/ST	P41	AL13/PG9/CS90	P20	AL16/PG11/S45	P20	AL21/M20/S45	P20	AL21/U138/A/000620	P22
ACB34	P41	AL13/PG9/CSF90	P21	AL16/PG11/SA	P20	AL21/M20/SA	P20	AL21/U138/C90/000620P22	
ACB34/ST	P41	AL13/PG9/S45	P20	AL16/PG11/SF45	P21	AL21/M20/SF45	P21	AL21/U144/45/000620	P22
ACB42	P41	AL13/PG9/SA	P20	AL16/PG11/SFA	P21	AL21/M20/SFA	P21	AL21/U144/A/000620	P22
ACB42/ST	P41	AL13/PG9/SF45	P21	AL16/PG13/45	P18	AL21/M25/A	P17	AL21/U144/C90/000620P22	
ACB54	P41	AL13/PG9/SFA	P21	AL16/PG13/A	P17	AL21/PF050/A	P17	AL21/U175/45/000620	P22
ACB54/ST	P41	AL13/U063/45/000620	P22	AL16/PG13/C90	P17	AL21/PF050/C90	P17	AL21/U175/A/000620	P22
ACG10	P41	AL13/U063/A/000620	P22	AL16/PG16/A	P17	AL21/PG11/A	P17	AL21/U175/C90/000620P22	
ACG13	P41	AL13/U063/C90/000620P22		AL16/PG9/A	P17	AL21/PG13/45	P18	AL211616/Y	P18
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Adaptaflex
UK Head Office

Station Road, Coleshill,
Birmingham, B46 1HT
T +44 (0) 1675 468 222
F +44 (0) 1675 464 930
UK SALES +44 (0) 1675 468 200
E sales@adaptaflex.co.uk
I www.adaptaflex.com

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