

CATALOGUE

# Flexible metallic conduit systems

Liquidtight and superflexible solutions for demanding applications



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**ABB Adaptaflex is a market-leading brand that can be found all over the world, offering flexible conduit systems. Over the last half a century, Adaptaflex has combined innovative design with dedicated manufacture, to offer customers one of the world's broadest ranges of cable protection solutions. With over 6000 products, including specialist metallic and non-metallic flexible conduit systems for the professional protection of cables, Adaptaflex can be used in critical power applications, data centers, equipment, buildings and infrastructures.**

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# Introduction

## Company overview

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

Adaptaflex is a market-leading flexible conduit system brand 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 conditions. The products are designed and tested to withstand constant vibrations, water ingress and offer corrosion and chemical resistance. Products are available in many different materials, including halogen free, low smoke and low toxicity materials. An extensive range of engineered solutions are designed to withstand the rigours of some of the most technically-demanding markets. So whatever your project involves, our experience will provide the answer, helping you to specify the correct flexible conduit system.

### Markets and industries

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

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

Our products are designed and engineered to meet a variety of market application requirements, providing product innovation that saves installation and component costs, improves quality and delivers integrity in the end product.



# Introduction

## Quality approvals & third party testing

### Quality approvals

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

- BSI Kitemark
- BS EN ISO14001 Environmental standard
- IEC 61386 Conduit standard covering the performance characteristics of flexible conduits
- ISO 60529 IP69 Rated, standard with its Adaptalok range of non metallic fittings
- Offer non-metallic conduit that is fully compliant to the new dual listed UL 1696 standard. Required for any equipment destined for export to the USA and Canada
- The Hi-Spec PEEK range, designed for the most demanding electrical applications in rail infrastructure, underground and public buildings, is the only non-metallic flexible conduit system fully compliant with both BS 6853 Class 1A requirement and LUL engineering standard 1-085

### Industry standards

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

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

### BSI Kitemark

Adaptaflex manufacture 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.

### ISO14001 and ISO45001 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.

### Customer support

All our products are backed up by a 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 support in the market place.

### Third party testing & approvals

#### IEC61386 Performance classification standard

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



# Flexible metallic conduit systems

## Introduction

Adaptaflex have a wide selection of metallic conduit systems manufactured either in galvanized or stainless steel.



A wide range of different types of conduit systems, offered in nominal conduit size from 3mm for CCTV/roller shutter doors and for protecting fiber optics cables, right up to 75mm for larger cable carrying capacity. Larger sizes are available on demand.

### 1. Liquidtight flexible metallic conduit systems

Covered by a liquidtight thermoplastic coating, with associated couplings, connectors and fittings for the installation of electric conductors. The right solution for especially demanding environments in terms of Ingress Protection rating. ABB Adaptaflex can boast the highest IP rated LFMC Systems in the market: IP66, IP67, IP68 (10 bar, 30 min), IP69.

### 2. Liquid-resistant flexible metallic conduit systems

Galvanised steel core, square-locked with thin wall convoluted thermoplastic cover. The solution for liquid resistant specifications. ABB Adaptaflex Liquid-resistant FMC Systems can assure Ingress Protection between IP54 and IP65.

### 3. Superflexible metallic conduit systems

Made by the helical coiling of a self-interlocked ribbed strip of galvanized steel or stainless steel, they're used primarily in dry areas where metallic strength to protect conductors is required; they can freely and highly flex, not maintaining any permanent bend.

### 4. Overbraided flexible metallic conduits systems

Stainless steel and galvanized steel overbraid give enhanced protection against abrasion, as well as offering additional mechanical protection against impact and compression. Suitable for applications calling for enhanced low fire hazard properties. High specification tinned copper over-braided solution are available for greater EMI screening protection levels.

—  
01 SPL Fitting  
M Type (modular)  
—  
02 Single Piece  
Fitting SAM Type

**Conduit Fittings: our pride and joy!**

Specifically designed to maintain high standard of system integrity: IP66, IP67, IP68 (10 bar, 30min), IP69. straight and 90° or 45° elbows, fixed and swivel fittings; a host of accessories includes

locknuts, enlargers, reducers and converters. Available in nickel plated brass and stainless steel, for the higher level of protection against corrosion.



—  
01

Single piece, liquidtight, high temperature, 316 stainless steel fitting suitable for food zone non-contact areas IP65, IP68 (10 bar, 30 min), IP69 protection multiple thread type Metric/NPT.



—  
02

# Markets

## Food, pharma and chemical

ABB Anti-microbial conduit systems are designed to protect complex processing equipment with sensitive electrical wiring systems, controls and automation. These solutions enable processors to increase revenue, plant sustainability, safety and brand equity.

Given the volume of mechanical process equipment involved in the food, pharma and chemical industries, combined with the shift towards increased automation through conveyor and feeder systems, there are often thousands of power and data cables that need to be protected. However, cable protection systems like conduits and fittings, can in themselves become a home for bacteria and pose a potential threat to safe processing.

The solution created with technology partner BioCote, is to integrate anti-microbial protection in to a new generation of liquidtight conduit. Featuring a smooth, FDA, EC and FSA compliant DuPont Hytrel® thermoplastic jacket, the conduit is complimented by an industry first, single piece liquidtight 316 stainless steel fitting. The new system poses a viable alternative to other types of conduit systems and is perfectly suited for the protection of processing equipment and surrounding process areas.

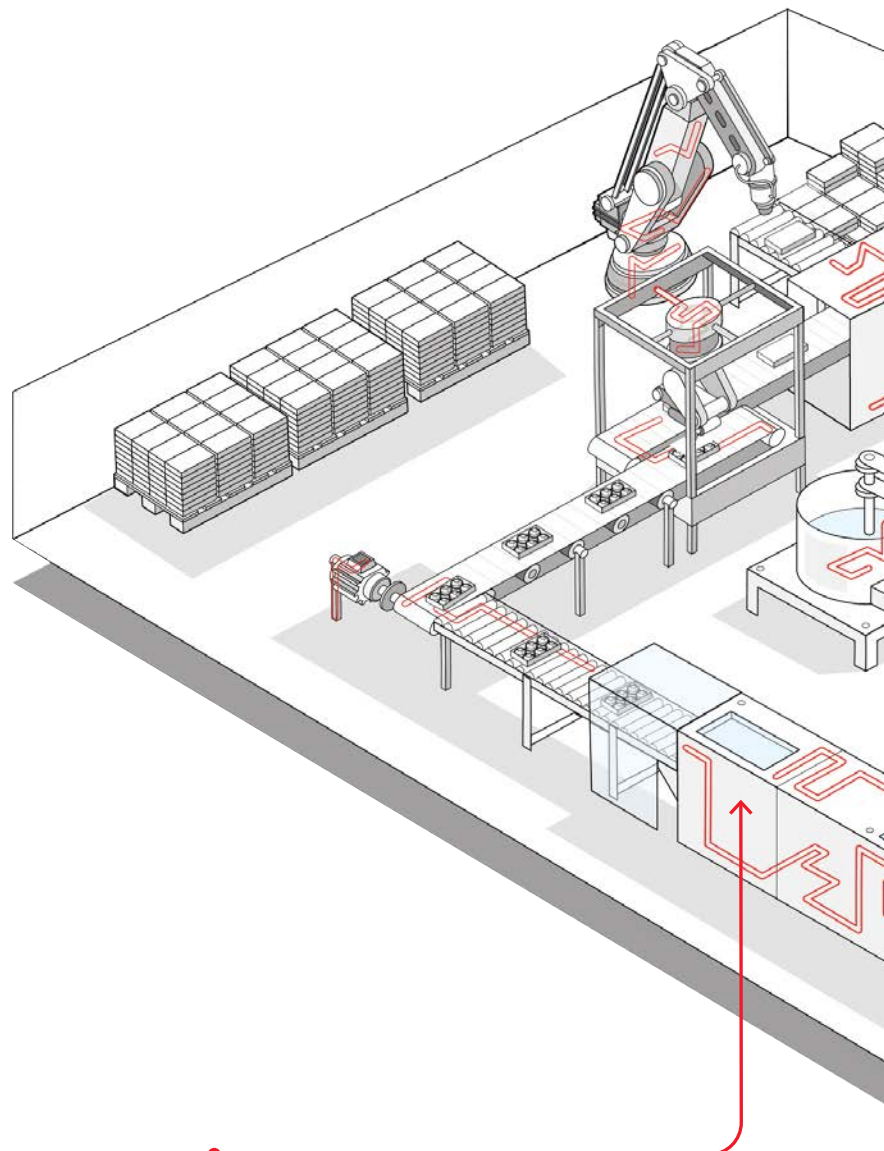
### System recommendations:

#### • Conduits:

- Anti-microbial NSF Systems:
  - SSAMHL (page 20)
  - SAMHL (page 21)
  - SAMHURL (page 22)
- NSF Food Zone Non-contact Systems:
  - LFH-SPL (page 27)
  - SSPLHC (page 28)
  - SPLHC (page 29)
  - SSPL (page 30)
  - SPL (page 31)

#### • Fittings:

- SPL/SAM (page 23)
- SSPL/M (page 33)
- SPL/M (page 34)



### Internal wiring networks

The liquidtight nature of the system - up to IP69 - steel core, anti-microbial protection and new single piece stainless steel fitting, combine to protect power and data cables from within, allowing machinery to operate efficiently, safely, and hygienically, without compromising production and systems.

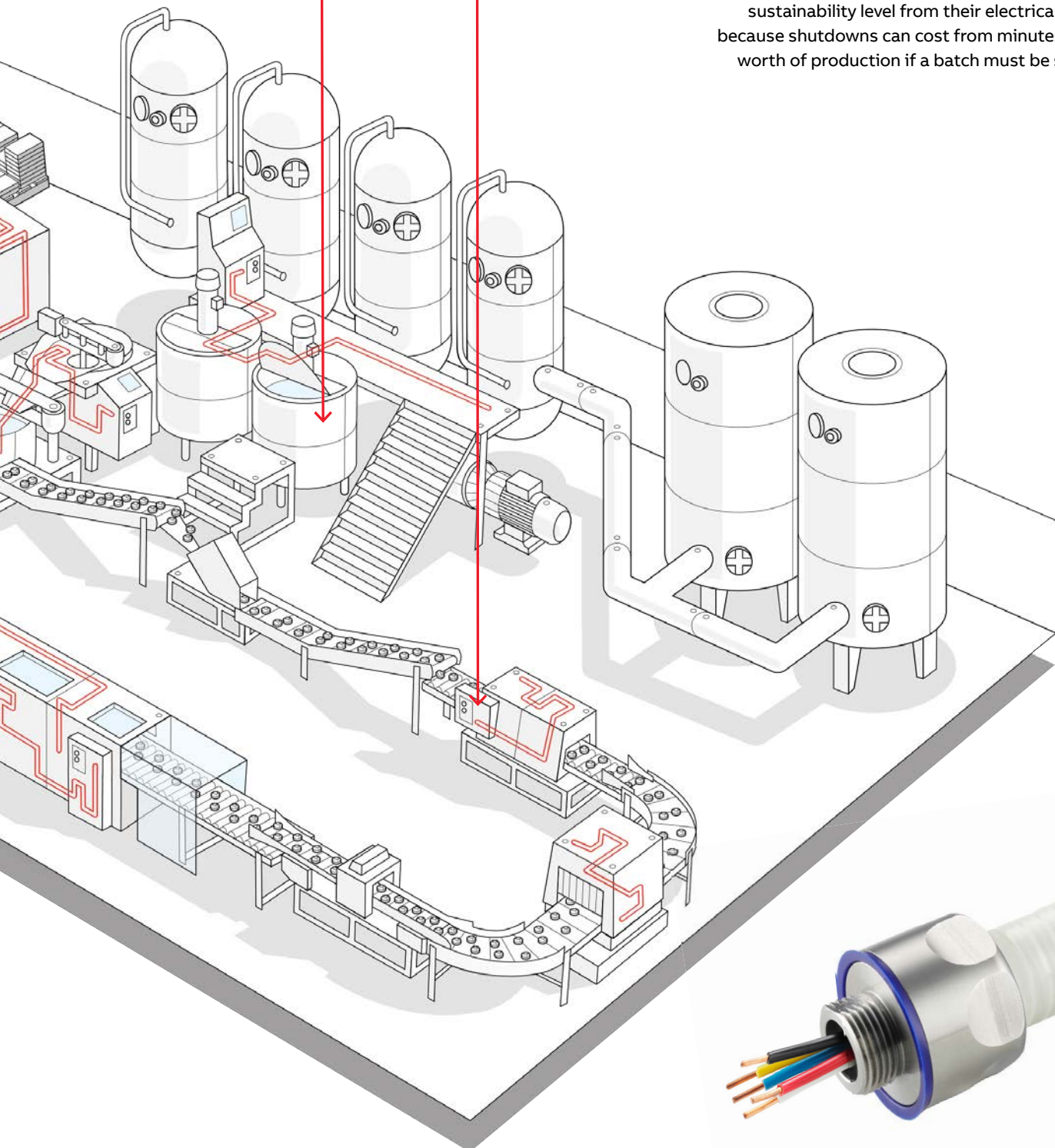


**Corrosion resistant material**

Food and beverage facility cleaning and sanitation crews often use high-pressure wash down cleaning equipment with high-temperature chemical solutions, with these processes in mind, ABB developed their food and beverage system using chemically resistant materials in their construction.

**Control panels**

Food and beverage processing plants require a high sustainability level from their electrical systems, because shutdowns can cost from minutes' to days' worth of production if a batch must be scrapped.



# Markets

## Construction and telecommunications

### Overview

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

### Standards, approvals and certifications

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



### Systems recommendations:

- Solutions for EMI screening
  - EMIEF-SPL (page 24)
  - EMILFH-SPL (page 25)
  - LFH-SPSS (page 54)
  - STC (page 66)
  - SB (page 67)
  - SSB (page 68)
- SPL-EF conduit (IP66..IP69 Liquidtight Enhanced Fire Performance, Zero Halogen) (page 26)
  - + SPL fittings (page 33-39)
- LFH-SPL conduit (IP66..IP69 Liquidtight Low Fire Hazard, Zero Halogen) (page 27)
  - + SPL fittings (page 33-39)
- LFH-SP conduit (IP65 Liquid resistant Low Fire Hazard, Zero Halogen) (page 45)
  - + SPL fittings (page 33-39)
- SN conduit (Nylon Covered, Halogen Free) (page 46)
  - + SP fittings (page 48-53)
- S and SS conduits (Inherent Low Fire Hazard) (page 61-62)
  - + S fittings (page 63-65)



# Markets

## Transport and rail infrastructure

### Overview

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

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

### Typical applications:

- Infrastructure projects – stations, tunnels, signalling
- Low fire hazard systems
- Exposed locations
- High impact resistance, low temperature flexing
- EMC Protection for safety critical systems
- OEM packages

### Standards, approvals and certifications

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

- LUL 1-085
- NF F 16-101/102
- NFPA130
- Deutsche Bahn (DIN 5510)
- BS6853
- Siemens Transportation
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- EN 45545-2



SIEMENS



### Systems recommendations:

- Solutions for EMI screening
  - EMIEF-SPL (page 24)
  - EMILFH-SPL (page 25)
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  - + S fittings (page 63-65)

# Markets

## Machine building OEMs and factory automation

### 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 downtime in manufacturing can be very costly so products that can offer high ingress protection are fundamental - Adaptaflex can offer a wide range of solutions to meet all of these needs.

### Typical applications:

- Metal cutting and fabrication
- Milling machines
- Hoists
- Cranes
- Lifts
- Escalators

### Standards, approvals and certifications

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

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



### Systems recommendations:

- Solutions for EMI screening
  - EMIEF-SPL (page 24)
  - EMILFH-SPL (page 25)
  - LFH-SPSS (page 54)
  - STC (page 66)
  - SB (page 67)
  - SSB (page 68)
- SPL-EF conduit (IP66..IP69 Liquidtight Enhanced Fire Performance, Zero Halogen) (page 24)
  - + SPL fittings (page 33-39)
- LFH-SPL conduit (IP66..IP69 Liquidtight Low Fire Hazard, Zero Halogen) (page 27)
  - + SPL fittings (page 33-39)
- SSPLHC/SPLHC conduit (page 28, 29)
  - + SSPL/SPL fittings (page 33, 34)
- LFH-SP conduit (IP65 Liquid resistant Low Fire Hazard, Zero Halogen) (page 45)
  - + SPL fittings (page 33-39)
- SN conduit (Nylon Covered, Halogen Free) (page 46) + SP fittings (page 48-53)
- S and SS conduits (Inherent Low Fire Hazard) (page 61-62) + S fittings (page 63-65)



# Markets

## Power, energy and renewables

### Overview

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

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

### Standards, approvals and certifications

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



### Systems recommendations:

- Solutions for EMI screening
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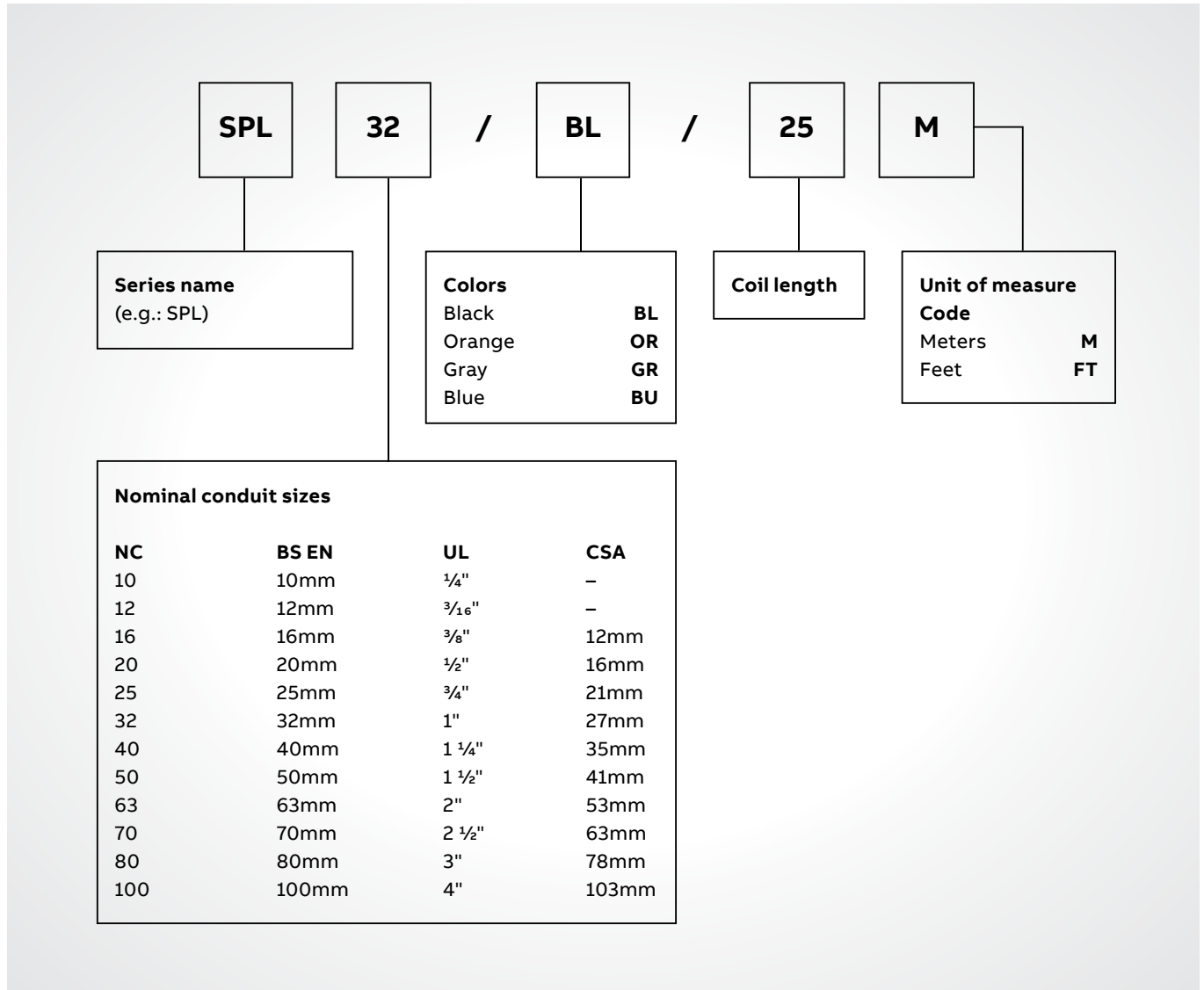




## Adaptaflex flexible metallic conduit systems

### Systems part number codes structure

For part number explanation only, not to be used as a configuration tool.







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# Liquidtight flexible metallic conduit systems

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conduit systems**
- 24**            **EMI Screen and Low Fire Hazard  
Liquidtight flexible metallic  
conduit systems**
- 28**            **Extreme Temperature  
Liquidtight flexible metallic  
conduit systems**
- 30**            **Oil Resistant Liquidtight flexible  
metallic conduit systems**
- 32**            **UL and CSA Listed liquidtight  
conduit systems**
- 40**            **Braided liquidtight flexible  
metallic conduit systems**

## Liquidtight flexible metallic conduit systems

### Quick selection guide



#### Quick selection guide

Conduit type	Type SSAMHL	Type SAMHURL	Type SAMHL	Type SPL-EF	Type LFH-SPL
Part number	SSAMHL	SAMHURL	SAMHL	SPL-EF	LFH-SPL
Conduit material	Stainless steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel
Covering/overbraid	Thermoplastic jacket	Thermoplastic jacket	Thermoplastic jacket	Low fire hazard jacket	Low fire hazard jacket
	Anti-microbial and Hygienic			Low Smoke and Zero Halogen	
	New EMI Screen version available pages 24 & 25				
<b>Conduit colour</b>					
Black (BL)	-	-	-	■	■
Grey (GR)	-	-	-	-	-
White (W)	■	■	■	-	-
<b>IP rating (with appropriate fitting)</b>					
IP40	-	-	-	-	-
IP54	-	■	■	■	■
IP65	■	■	■	■	■
IP66	■	■	■	■	■
IP67	■	■	■	■	■
IP68	■	■	■	■	■
IP69	■	■	■	■	■
<b>Characteristics</b>					
<b>Temperature range</b>					
Static applications (°C)	-50 to +130	-50 to +130	-50 to +130	-40 to +105	-20 to +90
Moving applications (°C)	-5 to +150	-5 to +150	-5 to +150	-30 to +105	-5 to +105
UV resistance	-	-	-	Very high	High
Flexibility	High	High	High	Very high	Medium
Fatigue life	High	High	High	High	Medium
Low fire hazard	-	-	-	Enhanced	Enhanced
Halogen free	-	-	-	■	■
Self extinguishing	-	-	-	■	■
EMI screen	-	-	-	-	-
High mechanical strength	-	-	-	■	■
High abrasion resistance	-	-	-	-	-
<b>Approvals</b>					
BSI Kitemark	■	■	■	■	■
CE	■	■	■	■	■
UL / CSA	-	-	-	-	-
UR	-	■	-	-	-
DIN 5510-2	-	-	-	-	-
NF F	-	-	-	-	■
LUL 1-085	-	-	-	-	■
UNI CEI 11170	-	-	-	-	-
EN45545-2 to HL3	-	-	-	■	■
<b>Page No.</b>	20	22	21	26	27



Type SSPLHC	Type SPLHC	Type SPUL	Type SSPL	Type SPL	Type SPLHCB
SSPLHC	SPLHC	SPUL	SSPL	SPL	SPLHCB
Stainless steel	Galvanised steel	Galvanised steel	Stainless steel	Galvanised steel	Galvanised steel
Thermoplastic rubber	Thermoplastic rubber	PVC	PVC	PVC	Thermoplastic rubber & stainless steel
Extreme High and Low Temperature		UL listed	Oil and Chemical Resistant		EMI Screen
■	■	-	■	■	-
-	-	■	■	■	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
■	■	■	■	■	■
■	■	■	■	■	■
■	■	■	■	■	■
■	■	■	■	■	■
■	■	■	■	■	■
-65 to +135	-65 to +135	-20 to +75	-20 to +105	-20 to +105	-65 to +135
-45 to +150	-45 to +150	-5 to +105	-5 to +105	-5 to +105	-45 to +150
Very high	Very high	High	Very high	Very high	Very high
Very high	Very high	Medium	Medium	Medium	High
High	High	Medium	Medium	Medium	Medium
-	-	-	-	-	-
■	■	-	-	-	■
■	■	■	■	■	■
-	-	-	-	-	Standard
■	■	■	■	■	■
-	-	-	-	-	■
■	■	■	■	■	-
-	-	■	-	-	-
-	■	-	-	■	-
-	-	-	-	-	-
-	-	-	-	-	-
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28	29	32	30	31	40

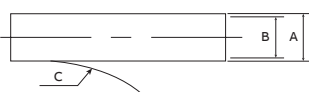
## Anti-microbial liquidtight conduit systems

### Type SSAMHL conduit

Type SSAMHL

Anti-microbial liquidtight, high temperature, flexible conduit /  
Materials: Stainless steel, FDA, EC and FSA compliant DuPont Hytrel® thermoplastic jacket

Part no.	Metric conduit size (mm)	US conduit size (Trade size)	Outside diameter A (mm)	Inside diameter B (mm)	Bend radius C (mm)	Reel length (m)
SSAMHL16/25M	16	3/8"	17.8	12.5	50	25
SSAMHL20/25M	20	1/2"	21.1	15.9	80	25
SSAMHL25/25M	25	3/4"	26.4	21.0	110	25
SSAMHL32/25M	32	1"	33.1	26.4	144	25
SSAMHL40/10M	40	1 1/4"	41.8	35.3	180	10
SSAMHL50/10M	50	1 1/2"	47.7	40.4	240	10
SSAMHL63/10M	63	2"	60.0	51.6	345	10



Part number example: SSAMHL20/25M, blue version SSAMHL20/BU/25M. For conduit support use part number example SSPC20  
High corrosion & chemical resistance. Suitable for food zone non-contact areas

Note<sup>1</sup>: Conduit is fully cleanable and will maintain full ingress protection under normal wet cleaning conditions with associated fittings

Note<sup>2</sup>: The anti-microbial additive containing inert ionic silver provides protection to the conduit against bacteria and other microbes

#### Approvals



NSF 14159-1-2014  
NSF 169-2009

#### IP rating

#### Appropriate fitting

For use with: Type SPL, SSPL and SAM

IP66 Type M, C45 & C90

IP67 Type A, B, M, C45 & C90

IP68 Type M, C45 & C90 (10 bar 30mins)

IP69 Type M, C45 & C90

#### Temperature range

Static applications: -50°C to +130°C

Moving applications: -5°C to +150°C

#### UV resistance

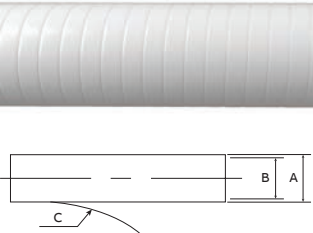
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## Anti-microbial liquidtight conduit systems

### Type SAMHL conduit

Type SAMHL

Anti-microbial liquidtight, high temperature, flexible conduit /  
Materials: Galvanised steel, FDA, EC and FSA compliant DuPont Hytrel® thermoplastic jacket

	Part no.	Metric conduit size (mm)	US conduit size (Trade size)	Outside diameter A (mm)	Inside diameter B (mm)	Bend radius C (mm)	Reel length (m)
	SAMHL16/25M	16	3/8"	17.8	12.5	50	25
	SAMHL20/25M	20	1/2"	21.1	15.9	80	25
	SAMHL25/25M	25	3/4"	26.4	21.0	110	25
	SAMHL32/25M	32	1"	33.1	26.4	144	25
	SAMHL40/25M	40	1 1/4"	41.8	35.3	180	25
	SAMHL50/25M	50	1 1/2"	47.7	40.4	240	25
	SAMHL63/25M	63	2"	60.0	51.6	345	25

Part number example: SAMHL20/50M, blue version SAMHL20/BU/50M. For conduit support use part number example SSPC20

High corrosion & chemical resistance. Suitable for food zone non-contact areas

Note<sup>1</sup>: Conduit is fully cleanable and will maintain full ingress protection under normal wet cleaning conditions with associated fittings

Note<sup>2</sup>: The anti-microbial additive containing inert ionic silver provides protection to the conduit against bacteria and other microbes

#### Approvals



NSF 14159-1-2014  
NSF 169-2009

#### IP rating

#### Appropriate fitting

For use with: Type SPL, SSPL and SAM

IP66 Type M, C45 & C90

IP67 Type A, B, M, C45 & C90

IP68 Type M, C45 & C90 (10 bar 30mins)

IP69 Type M, C45 & C90

#### Temperature range

Static applications: -50°C to +130°C

Moving applications: -5°C to +150°C

#### Flexibility & fatigue life

High flexibility - High fatigue life

#### Fire Performance & EMI Screen

Self extinguishing

#### UV resistance

-

## Anti-microbial liquidtight conduit systems

### Type SAMHURL conduit

Type SAMHURL

Anti-microbial liquidtight, high temperature, flexible conduit /  
Materials: Galvanised steel, FDA, EC and FSA compliant DuPont Hytrel® thermoplastic jacket

Part no.	Metric conduit size (mm)	US conduit size (Trade size)	Outside diameter A (mm)	Inside diameter B (mm)	Bend radius C (mm)	Reel length (feet)
SAMHURL16/100FT	16	3/8"	17.8	12.5	50	100
SAMHURL20/100FT	20	1/2"	21.1	15.9	80	100
SAMHURL25/100FT	25	3/4"	26.4	21.0	110	100
SAMHURL32/100FT	32	1"	33.1	26.4	144	100
SAMHURL40/50FT	40	1 1/4"	41.8	35.3	180	50
SAMHURL50/50FT	50	1 1/2"	47.7	40.4	240	50
SAMHURL63/50FT	63	2"	60.0	51.6	345	50

Part number example: SAMHURL20/50FT, blue version SAMHURL20/BU/50FT. For conduit support use part number example SSPC20  
High corrosion & chemical resistance. Suitable for food zone non-contact areas

Note<sup>1</sup>: Conduit is fully cleanable and will maintain full ingress protection under normal wet cleaning conditions with associated fittings

Note<sup>2</sup>: The anti-microbial additive containing inert ionic silver provides protection to the conduit against bacteria and other microbes

#### Approvals



**UL**  
UR File No. E135398

#### IP rating

#### Appropriate fitting

For use with: Type SPL, SSPL and SAM

**IP66** Type M, C45 & C90

**IP67** Type A, B, M, C45 & C90

**IP68** Type M, C45 & C90 (10 bar 30mins)

**IP69** Type M, C45 & C90

#### Temperature range

Static applications: -50°C to +130°C

Moving applications: -5°C to +150°C

#### Flexibility & fatigue life

High flexibility - High fatigue life

#### Fire Performance & EMI Screen

Self extinguishing

#### UV resistance

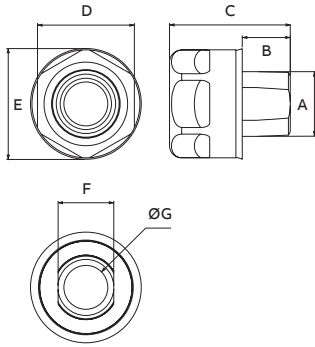
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## Single piece stainless steel liquidtight fitting

### Type SAM fitting

#### Type SAM

Single piece, liquidtight, high temperature fitting / Materials: Stainless steel



Part no.	Conduit size (A)		Nominal dimensions (mm)						
	Metric (mm)	US (Trade size)	B	C	D	E	F	G	
<b>Metric</b>									
SPL16/M16/SAM	16	3/8"	12.0	32.8	30.0	31.9	14.0	10.5	
SPL20/M20/SAM	20	1/2"	12.0	35.6	32.0	35.0	18.0	14.5	
SPL25/M25/SAM	25	3/4"	12.0	43.0	38.0	41.0	23.0	18.3	
SPL32/M32/SAM	32	1"	12.0	51.5	45.0	49.0	30.0	24.1	
SPL40/M40/SAM	40	1 1/4"	12.0	53.3	57.0	61.5	38.0	32.7	
SPL50/M50/SAM	50	1 1/2"	12.0	60.2	64.0	69.0	48.0	37.7	
SPL63/M63/SAM*	63	2"	12.0	71.4	80.0	87.0	61.0	49.0	
<b>NPT</b>									
SPL16/038/SAM	16	3/8"	9.9	36.9	30.0	33.2	14.0	10.5	
SPL20/050/SAM	20	1/2"	13.1	40.3	32.0	36.3	19.0	14.5	
SPL25/075/SAM	25	3/4"	13.6	43.5	38.0	45.7	23.0	18.3	
SPL32/100/SAM	32	1"	16.6	53.7	45.0	50.3	30.0	24.1	
SPL40/125/SAM	40	1 1/4"	17.3	55.9	57.0	63.4	39.0	32.7	
SPL50/150/SAM	50	1 1/2"	17.7	60.4	64.0	70.9	45.5	37.7	
SPL63/200/SAM*	63	2"	18.5	68.6	80.0	88.9	57.0	49.0	

\* : Currently does not conform to UL514b

Note<sup>1</sup>: A flat surface greater than diameter "E" is required around the knockout on the box or enclosure for the face seal of the NPT fitting to create a liquidtight seal. (The NPT threads alone will not provide a liquidtight seal when installed in a female NPT hub)

Note<sup>2</sup>: Parts are maintenance free, face seal can be replaced if damaged

Note<sup>3</sup>: Parts are fully cleanable and will maintain full ingress protection under normal wet cleaning conditions

Very high corrosion resistance, chemical resistance and fatigue life

#### Approvals



NSF 14159-1-2014  
NSF 169-2009



UL514b  
File No. E60625

#### IP rating

For use with: All liquidtight conduit

IP66 Yes

IP68 Yes (10 bar 30mins)

IP69 Yes

#### Temperature range

Static applications: -50°C to +130°C

Moving applications: -5°C to +150°C

#### UV resistance

-

#### Flexibility & fatigue life

High flexibility - High fatigue life

#### Fire Performance & EMI Screen

Self extinguishing

## Enhanced fire performance EMI/EMC Screen liquidtight conduit systems

### Type EMIEF-SPL conduit

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

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

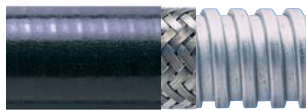
Generation, according to ASTM E 162, ASTM E 662 and Bombardier SMP 800-C testing procedures, covering fire safety requirements worldwide. Plus, thanks to its internal braiding, it is the outstanding solution where low smoke and toxicity are of concern and EMI/EMC screening is required.

**Advantages include:**

- EN45545-2 and BS EN 61386-1 & 23 accreditation
- HL3 - R22 & R23 rating
- Up to IP69 rating
- High flexibility
- Oil and hydrocarbons resistant
- Suitable for any buildings & infrastructure where low smoke, low toxicity and EMI screening is required, wide use underground and in any part of train vehicles and infrastructure
- EMI/EMC screening

— **Enhanced fire performance, under-braided, covered steel flexible conduit /Materials: Galvanised steel core, string packing up to 32mm, interlocked core 40mm and above with galvanised steel overbraid; Low fire hazard jacket**

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Outside diameter (mm)	Inside diameter (mm)	Coil length (m)
EMIEF-SPL16/25M	16	12	3/8	17.9	12.3	100
EMIEF-SPL20/25M	20	16	1/2	21.3	15.8	120
EMIEF-SPL25/25M	25	21	3/4	26.5	20.8	140
EMIEF-SPL32/25M	32	27	1	33.2	26.5	180
EMIEF-SPL40/10M	40	35	1 1/4	42.0	35.0	230
EMIEF-SPL50/10M	50	41	1 1/2	48.0	40.0	260
EMIEF-SPL63/10M	63	53	2	60.5	51.3	330



Part number example: To order quote part number, colour & conduit coil length, e.g. EMIEF-SPL16/BL/25m.

**Approvals**

EN45545-2 HL3 - R22 & R23  
 ASTM E 162  
 ASTM E 662  
 Bombardier SMP 800-C

IP rating	Appropriate fitting
<b>For use with:</b> Type SPL, SSPL	
IP66	Type M, C45 & C90
IP67	Type A, B, M, C45 & C90
IP68	Type M, C45 & C90 (10 bar 30mins)
IP69	Type M, C45 & C90

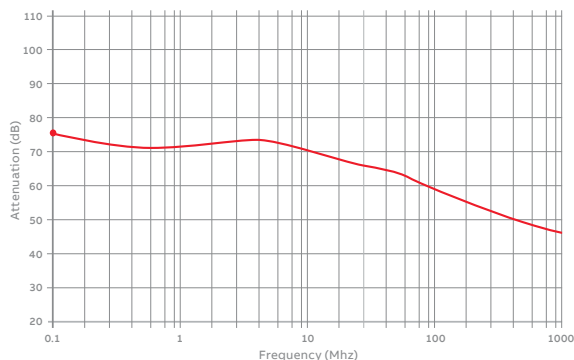
Temperature range	UV resistance
Static applications: -40°C to +105°C	Very high
Moving applications: -30°C to +105°C	
Flexibility & fatigue life	
Very high flexibility – High fatigue life	
Fire performance & EMI screen	
Self extinguishing	
Halogen free	

— The graph shows the results of EMIEF-SPL screened conduit, with its appropriate fittings.

— The conduit is tested by ERA technology, to IEC 1196-1 Transfer Impedance.

— Tests measured attenuation in decibels (dB) over the frequency range covered by the EMC directive, 100 kHz to 1 GHz.

— Transfer Impedance was extrapolated to per metre transfer impedance and converted to give a shielding effectiveness, demonstrated by the graph.





## Low Fire Hazard EMI/EMC Screen liquidtight conduit systems

### Type EMILFH-SPL conduit

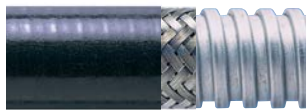
The EMILFH-SPL conduit systems are a Low Fire Hazard Performance rated, flexible, liquidtight range. Designed to meet the demand for 'interoperability' and compliance with stringent local and European fire safety requirements in the rail infrastructure market, the EMILFH-SPL system, is accredited with the EN45545-2 standard achieving the highest HL3 fire performance rating for both interior and exterior locations. The system provides high performance levels of UV resistance working in a temperature range of (-20°C to +90°C). Providing outstanding performance for Surface Flammability, Smoke Generation Rate and Toxic Gas Generation, according to ASTM E 162, ASTM E 662 and Bombardier SMP 800-C testing procedures, covering fire safety requirements worldwide, thanks to its internal braiding, it is a very good solution where low smoke and toxicity are of concern and EMI/EMC screening is required.

**Advantages include:**

- EN45545-2 and BS EN 61386-1 & 23 accreditation
- HL3 - R22 & R23 rating
- Up to IP69 rating
- Medium flexibility
- Suitable for Any buildings & infrastructure where low smoke, low toxicity and EMI screening is required, wide use underground and in any part of train vehicles and infrastructure
- EMI/EMC screening

**Low fire hazard performance, under-braided, covered steel flexible conduit /Materials: Galvanised steel core, string packing up to 32mm, Interlocked core 40mm and above with galvanised steel overbraid; Low fire hazard jacket**

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Outside diameter (mm)	Inside diameter (mm)	Coil length (m)
EMILFH-SPL16/25M	16	12	3/8	17.9	12.3	110
EMILFH-SPL20/25M	20	16	1/2	21.3	15.8	130
EMILFH-SPL25/25M	25	21	3/4	26.5	20.8	160
EMILFH-SPL32/25M	32	27	1	33.2	26.5	200
EMILFH-SPL40/10M	40	35	1 1/4	42.0	35.0	250
EMILFH-SPL50/10M	50	41	1 1/2	48.0	40.0	290
EMILFH-SPL63/10M	63	53	2	60.5	51.3	360



Part number example: To order quote part number, colour & conduit coil length, e.g. EMIEF-SPL16/BL/25m.

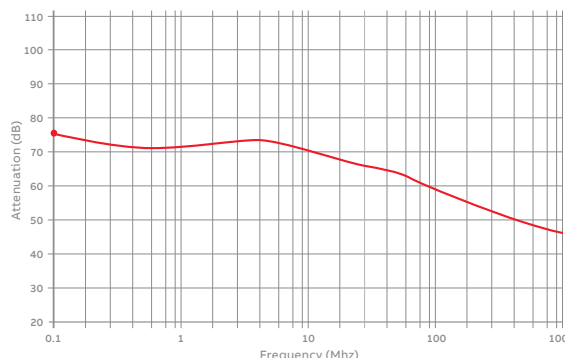
Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
<p>EN45545-2 HL3 - R22 &amp; R23 ASTM E 162 ASTM E 662 Bombardier SMP 800-C</p>	For use with: Type SPL, SSPL and SAM		Static applications: -20oC to +90oC	High
	IP66	Type M, C45 & C90	Moving applications: --5oC to +105oC	
	IP67	Type A, B, M, C45 & C90	<b>Flexibility &amp; fatigue life</b>	Medium flexibility – Medium fatigue life
	IP68	Type M, C45 & C90 (10 bar 30mins)	<b>Fire performance &amp; EMI screen</b>	Self extinguishing
	IP69	Type M, C45 & C90	Halogen free	

The graph shows the results of EMILFH-SPL screened conduit, with its appropriate fittings.

The conduit is tested by ERA technology, to IEC 1196-1 Transfer Impedance.

Tests measured attenuation in decibels (dB) over the frequency range covered by the EMC directive, 100 kHz to 1 GHz.

Transfer Impedance was extrapolated to per metre transfer impedance and converted to give a shielding effectiveness, demonstrated by the graph.



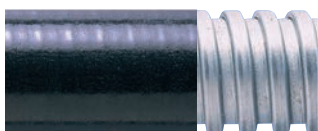
## Enhanced Fire Performance liquidtight conduit systems

### Type SPL-EF conduit

Type SPL-EF

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

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Coil length (m)
SPL-EF12/10M	12	14.2	5/16	10.0	45	10
SPL-EF16/10M	16	17.8	3/8	12.5	50	10
SPL-EF20/25M	20	21.1	1/2	15.9	80	25
SPL-EF25/25M	25	26.4	3/4	21.0	110	25
SPL-EF32/25M	32	33.1	1	26.4	145	25
SPL-EF40/10M	40	41.8	1 1/4	35.3	180	10
SPL-EF50/10M	50	47.7	1 1/2	40.4	240	10



If interested in different coil lengths, do not hesitate to inquire

#### Approvals



EN45545-2 HL3 - R22 & R23

ASTM E 162

ASTM E 662

Bombardier SMP 800-C

#### IP rating

For use with: Type SPL, SSPL and SAM

IP66 Type M, C45 & C90

IP67 Type A, B, M, C45 & C90

IP68 Type M, C45 & C90 (10 bar 30mins)

IP69 Type M, C45 & C90

#### Appropriate fitting

#### Temperature range

Static applications: -40°C to +105°C

Moving applications: -30°C to +105°C

#### UV resistance

Very high

#### Flexibility & fatigue life

Very high flexibility – High fatigue life

#### Fire performance & EMI screen

Self extinguishing

Halogen free



## Low Fire Hazard liquidtight conduit systems

### Type LFH-SPL conduit

Type LFH-SPL

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

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
LFH-SPL16/10M	16	17.8	3/8	12.5	50	10
LFH-SPL20/25M	20	21.1	1/2	16.0	80	25
LFH-SPL25/25M	25	26.4	3/4	21.0	110	25
LFH-SPL32/25M	32	33.1	1	26.4	145	25
LFH-SPL40/10M	40	41.8	1 1/4	35.3	180	10
LFH-SPL50/10M	50	47.7	1 1/2	40.4	240	10
LFH-SPL63/10M	63	60.0	2	51.6	345	10

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



NSF 14159-1-2014  
NSF 169-2009



EN45545-2 HL3 - R22 & R23

ASTM E 162

ASTM E 662

Bombardier SMP 800-C

#### IP rating

#### Appropriate fitting

For use with: Type SPL, SSPL and SAM

IP66 Type M, C45 & C90

IP67 Type A, B, M, C45 & C90

IP68 Type M, C45 & C90 (10 bar 30mins)

IP69 Type M, C45 & C90

#### Temperature range

Static applications: -20°C to +90°C

Moving applications: -5°C to +105°C

#### Flexibility & fatigue life

Medium flexibility – Medium fatigue life

#### Fire performance & EMI screen

Self extinguishing

Halogen free



#### UV resistance

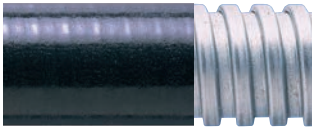
High

## Extreme Temperature 316SS liquidtight conduit systems



### Type SSPLHC conduit

Type SSPLHC

Liquidtight extreme temperature covered 316 stainless steel flexible conduit /  
Materials: Thermoplastic rubber covered 316 stainless steel / Colour: Black (BL) only

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SSPLHC16/25M	16	17.8	3/8	12.5	50	25
	SSPLHC20/25M	20	21.1	1/2	15.9	80	25
	SSPLHC25/25M	25	26.4	3/4	21.0	110	25
	SSPLHC32/25M	32	33.1	1	26.7	145	25
	SSPLHC40/25M	40	41.8	1 1/4	35.3	180	25
	SSPLHC50/10M	50	47.7	1 1/2	40.4	240	10
	SSPLHC63/10M	63	59.5	2	51.3	345	10

If interested in different coil lengths, do not hesitate to inquire

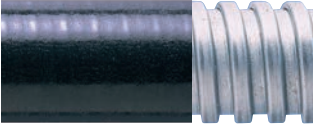
Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
 	For use with: Type SPL, SSPL and SAM		Static applications: -65°C to +135°C	Very high
	IP66	Type M, C45 & C90	Moving applications: -45°C to +150°C	
	IP67	Type A, B, M, C45 & C90	<b>Flexibility &amp; fatigue life</b>	
	IP68	Type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

## Extreme Temperature liquidtight conduit systems

### Type SPLHC conduit

#### Type SPLHC

Liquidtight extreme temperature covered steel flexible conduit /  
Materials: Thermoplastic rubber covered galvanised steel / Colour: Black (BL) only

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SPLHC10/25M	10	11.8	¼	7.0	40	25
	SPLHC12/25M	12	14.2	5/16	10.0	40	25
	SPLHC16/25M	16	17.8	¾	12.5	50	25
	SPLHC20/25M	20	21.1	½	15.9	80	25
	SPLHC25/25M	25	26.4	¾	21.0	110	25
	SPLHC32/25M	32	33.1	1	26.7	145	25
	SPLHC40/25M	40	41.7	1 ¼	35.0	180	25
	SPLHC50/25M	50	47.9	1 ½	40.4	240	25
	SPLHC63/25M	63	59.7	2	51.6	345	25

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



#### IP rating

For use with: Type SPL, SSPL and SAM

IP66 Type M, C45 & C90

IP67 Type A, B, M, C45 & C90

IP68 Type M, C45 & C90 (10 bar 30mins)

IP69 Type M, C45 & C90

#### Appropriate fitting

#### Temperature range

Static applications: -65°C to +135°C

Moving applications: -45°C to +150°C

#### Flexibility & fatigue life

Very high flexibility – High fatigue life

#### Fire performance & EMI screen

Self extinguishing

Halogen free

#### UV resistance

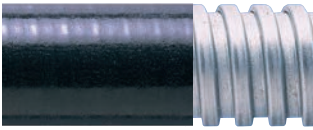
Very high

## Oil Resistant 316SS liquidtight conduit systems

### Type SSPL conduit

Type SSPL

Liquidtight oil resistant covered 316 stainless steel flexible conduit /  
Materials: PVC covered 316 stainless steel / Colour: Black (BL), Grey (GR), Orange (OR)

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SSPL16/25M	16	17.8	3/8	12.5	50	25
	SSPL20/25M	20	21.1	1/2	15.9	80	25
	SSPL25/25M	25	26.4	3/4	21.0	110	25
	SSPL32/25M	32	33.1	1	26.7	145	25
	SSPL40/25M	40	41.8	1 1/4	35.3	180	25
	SSPL50/10M	50	47.8	1 1/2	40.4	240	25
	SSPL63/10M	63	60.0	2	51.6	345	25

Grey (GR), Orange (OR) version available

#### Approvals



#### IP rating

For use with: Type SPL, SSPL and SAM

IP66 Type M, C45 & C90

IP67 Type A, B, M, C45 & C90

IP68 Type M, C45 & C90 (10 bar 30mins)

IP69 Type M, C45 & C90

#### Appropriate fitting

#### Temperature range

Static applications: -20°C to +105°C

Moving applications: -5°C to +105°C

#### UV resistance

Very high

#### Flexibility & fatigue life

Medium flexibility – Medium fatigue life

#### Fire performance & EMI screen

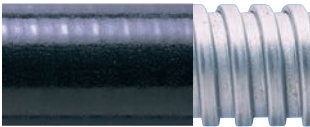
Self extinguishing

## Oil Resistant liquidtight conduit systems

### Type SPL conduit

Type SPL

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SPL10/50M	10	11.8	3/4	7.0	40	50
	SPL12/50M	12	14.2	5/16	10.0	45	50
	SPL16/25M	16	17.8	3/8	12.5	50	25
	SPL20/25M	20	21.1	1/2	15.9	80	25
	SPL25/25M	25	26.4	3/4	21.0	110	25
	SPL32/25M	32	33.1	1	26.7	145	25
	SPL40/25M	40	41.8	1 1/4	35.3	180	25
	SPL50/25M	50	47.8	1 1/2	40.4	240	25
	SPL63/25M	63	60.0	2	51.6	345	25

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



**C** **RU** **US**  
File No. E135398

**NSF** NSF 14159-1-2014  
NSF 169-2009

#### IP rating

For use with: Type SPL, SSPL and SAM

<b>IP66</b>	Type M, C45 & C90
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<b>IP67</b>	Type A, B, M, C45 & C90
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<b>IP68</b>	Type M, C45 & C90 (10 bar 30mins)
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<b>IP69</b>	Type M, C45 & C90
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#### Appropriate fitting

#### Temperature range

Static applications: -20°C to +105°C

Moving applications: -5°C to +105°C

#### UV resistance

Very high

#### Flexibility & fatigue life

Medium flexibility – Medium fatigue life

#### Fire performance & EMI screen

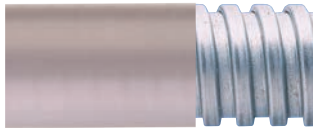
Self extinguishing

## UL and CSA Listed liquidtight conduit systems

### Type SPUL conduit

Type SPUL

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	US conduit size (in)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SPUL16/50M	16	17.8	3/8	12.5	50	50
	SPUL20/50M	20	21.1	1/2	15.9	80	50
	SPUL25/25M	25	26.4	3/4	21.0	110	25
	SPUL32/25M	32	33.1	1	26.7	145	25
	SPUL40/25M	40	41.8	1 1/4	35.4	180	25
	SPUL50/25M	50	47.9	1 1/2	40.4	240	25

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



File No. E76358

#### IP rating

For use with: Type SPL, SSPL and SAM

IP rating	Appropriate fitting
IP66	Type M, C45 & C90
IP67	Type A, B, M, C45 & C90
IP68	Type M, C45 & C90 (10 bar 30mins)
IP69	Type M, C45 & C90

#### Temperature range

Static applications: -20°C to +90°C

Moving applications: -5°C to +105°C

#### Flexibility & fatigue life

Medium flexibility – Medium fatigue life

#### Fire performance & EMI screen

Self extinguishing

#### UV resistance

High



## Liquidtight flexible metallic conduit systems

### SSPL 316SS Type M fitting

SSPL Type M fitting

Straight fitting – Fixed external male thread / Materials: 316 stainless steel



Part no.	Nominal conduit size (mm)	US conduit size (in)	Thread
<b>Metric thread</b>			
SSPL10/M12/M	10	¼	M12
SSPL16/M16/M	16	⅜	M16
SSPL20/M20/M	20	½	M20
SSPL25/M25/M	25	¾	M25
SSPL32/M32/M	32	1	M32
SSPL40/M40/M	40	1 ¼	M40
SSPL50/M50/M	50	1 ½	M50
SSPL63/M63/M	63	2	M63

#### Approvals



UL514B  
File No. E60625

#### IP rating

For use with: All liquidtight conduit

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

#### Temperature range

Static applications: -65°C to +150°C

Moving applications: -45°C to +150°C

#### Fitting characteristics

## Liquidtight flexible metallic conduit systems

### SPL Type M fitting

#### SPL Type M fitting

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



Part no.	Nominal conduit size (mm)	US conduit size (in)	Thread
<b>Metric thread</b>			
SPL10/M12/M	10	¼	M12
SPL10/M16/M	10	¼	M16
SPL12/M16/M	12	5/16	M16
SPL16/M16/M	16	¾	M16
SPL16/M20/M	16	¾	M20
SPL20/M20/M	20	½	M20
SPL25/M25/M	25	¾	M25
SPL32/M32/M	32	1	M32
SPL40/M40/M	40	1 ¼	M40
SPL50/M50/M	50	1 ½	M50
SPL63/M63/M	63	2	M63
<b>PG thread</b>			
SPL10/PG7/M	10	¼	PG7
SPL12/PG9/M	12	5/16	PG9
SPL16/PG11/M	16	¾	PG11
SPL16/PG13/M	16	¾	PG13,5
SPL20/PG16/M	20	½	PG16
SPL25/PG21/M	25	¾	PG21
SPL32/PG29/M	32	1	PG29
SPL40/PG36/M	40	1 ¼	PG36
SPL50/PG42/M	50	1 ½	PG42
SPL63/PG48/M	63	2	PG48
<b>NPT thread</b>			
SPL16/038/M	16	¾	¾
SPL20/050/M	20	½	½
SPL25/075/M	25	¾	¾
SPL32/100/M	32	1	1
SPL40/125/M	40	1 ¼	1 ¼
SPL50/150/M	50	1 ½	1 ½
SPL63/200/M	63	2	2

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

#### Approvals



UL514B  
File No. E60625

#### IP rating

For use with: All liquidtight conduit

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

#### Temperature range

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

#### Fitting characteristics

## Liquidtight flexible metallic conduit systems

### SPL Type U coupler & SPL Type E terminator

#### SPL Type U coupler

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



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

For coupling separate lengths of liquidtight conduit

#### Approvals



#### IP rating

For use with: All liquidtight conduit

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

#### Temperature range

Static applications: -65°C to +150°C

Moving applications: -45°C to +150°C

#### Fitting characteristics



#### SPL Type E terminator

Conduit terminator / Materials: Nickel plated brass



Part no.	Nominal conduit size (mm)	US conduit size (in)
SPL10/E	10	3/8
SPL12/E	12	5/16
SPL16/E	16	3/8
SPL20/E	20	1/2
SPL25/E	25	3/4
SPL32/E	32	1
SPL40/E	40	1 1/4
SPL50/E	50	1 1/2
SPL63/E	63	2

Cable protection at exit point

#### Approvals



#### IP rating

For use with: All liquidtight conduit

IP54	Yes
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#### Temperature range

Static applications: -65°C to +300°C

Moving applications: -45°C to +250°C

## Liquidtight flexible metallic conduit systems

### SPL Type C90 fitting

SPL Type C90 fitting

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



Part no.	Nominal conduit size (mm)	US conduit size (in)	Thread
<b>Metric thread</b>			
SPL16/M16/C90	16	3/8	M16
SPL16/M20/C90	16	3/8	M20
SPL20/M20/C90	20	1/2	M20
SPL25/M25/C90	25	3/4	M25
SPL32/M32/C90	32	1	M32
SPL40/M40/C90	40	1 1/4	M40
SPL50/M50/C90	50	1 1/2	M50
SPL63/M63/C90	63	2	M63
<b>NPT thread</b>			
SPL16/038/C90	16	3/8	3/8
SPL16/050/C90	16	3/8	3/8
SPL20/050/C90	20	1/2	1/2
SPL25/075/C90	25	3/4	3/4
SPL32/100/C90	32	1	1
SPL40/125/C90	40	1 1/4	1 1/4
SPL50/150/C90	50	1 1/2	1 1/2
SPL63/200/C90	63	2	2

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

#### Approvals

UL514B  
File No. E60625

#### IP rating

For use with: All liquidtight conduit

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

#### Temperature range

Static applications: -65°C to +150°C

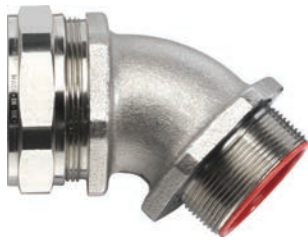
Moving applications: -45°C to +150°C

## Liquidtight flexible metallic conduit systems

### SPL Type C45 fitting

SPL Type C45 fitting

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



Part no.	Nominal conduit size (mm)	US conduit size (in)	Thread
<b>Metric thread</b>			
SPL16/M16/C45	16	3/8	M16
SPL16/M20/C45	16	3/8	M20
SPL20/M20/C45	20	1/2	M20
SPL25/M25/C45	25	3/4	M25
SPL32/M32/C45	32	1	M32
SPL40/M40/C45	40	1 1/4	M40
SPL50/M50/C45	50	1 1/2	M50
SPL63/M63/C45	63	2	M63
<b>NPT thread</b>			
SPL16/038/C45	16	3/8	3/8
SPL16/050/C45	16	3/8	3/8
SPL20/050/C45	20	1/2	1/2
SPL25/075/C45	25	3/4	3/4
SPL32/100/C45	32	1	1
SPL40/125/C45	40	1 1/4	1 1/4
SPL50/150/C45	50	1 1/2	1 1/2
SPL63/200/C45	63	2	2

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

#### Approvals

UL514B  
File No. E60625

#### IP rating

#### Appropriate conduit

For use with: All liquidtight conduit

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

#### Temperature range

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

## Liquidtight flexible metallic conduit systems

SPL Type MF female, internal thread fitting

SPL Type MF fitting

Straight female internal thread fitting / Materials: Nickel plated brass



Part no.	Conduit	Thread size	Nominal dimensions					Approx. weight (g)
			A	B	C	D	E	
SPL16/M16/MF	16	M16x1.5	18.0	24.0	25.0	NC16	24.0	45
SPL20/M20/MF	20	M20x1.5	22.0	25.4	25.6	NC20	28.6	52
SPL25/M25/MF	25	M25x1.5	27.6	32.0	27.6	NC25	35.0	97
SPL32/M32/MF	32	M32x1.5	34.5	38.1	38.0	NC32	42.0	145
SPL40/M40/MF	40	M40x1.5	42.5	50.0	34.5	NC40	52.0	205
SPL50/M50/MF	50	M50x1.5	52.0	60.0	37.3	NC50	60.0	350

### Approvals



### IP rating

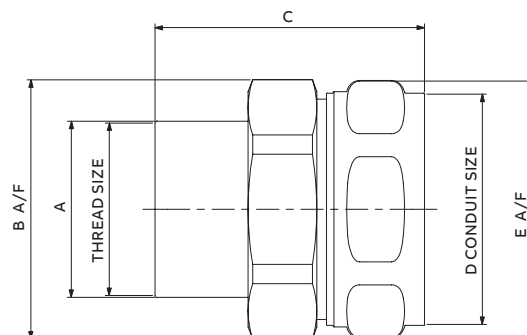
For use with: All liquidtight conduit

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)
IP69	Yes

### Temperature range

Static applications: -65°C to +150°C

Moving applications: -45°C to +150°C

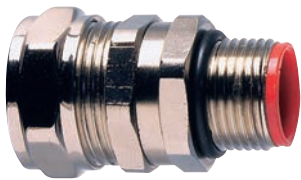


## Liquidtight flexible metallic conduit systems

### SPL Type B swivel external male thread fitting

SPL Type B fitting

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



Part no.	Nominal conduit size (mm)	US conduit size (in)	Metric thread
SPL16/M16/B	16	3/8	M16
SPL16/M20/B	16	3/8	M20
SPL20/M20/B	20	1/2	M20
SPL25/M25/B	25	3/4	M25
SPL32/M32/B	32	1	M32

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

#### Approvals



#### IP rating

For use with: All liquidtight conduit

IP67

Yes

#### Temperature range

Static applications: -65°C to +105°C

Moving applications: -45°C to +150°C


#### Fitting characteristics







## Braided liquidtight flexible metallic conduit systems

Liquidtight, high strength Type SPLHCB conduit

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

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

If interested in different coil lengths, do not hesitate to inquire

Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
  	<b>For use with: Type SPLB</b>		Static applications: -65°C to +135°C	Very high
	IP66	Type SPLB - Type A & B	Moving applications: -54°C to +150°C	
	IP67	Type SPLB - Type A & B	<b>Flexibility &amp; fatigue life</b>	
	IP68	Type SPLB - Type A & B	Very high flexibility - High fatigue life	
	<b>Fire performance &amp; EMI screen</b>			
	Self extinguishing			
	Halogen Free			



## Braided liquidtight flexible metallic conduit systems

EMI screen, liquid resistant SPLB Type A & B fittings

### SPLB Type A fitting

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



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

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

#### Approvals



#### IP rating

For use with: Type SPLHCB

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)

#### Temperature range

Static applications: -65°C to +135°C

Moving applications: -45°C to +150°C

### SPLB Type B fitting

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



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

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

#### Approvals



#### IP rating

For use with: Type SPLHCB

IP66	Yes
IP67	Yes
IP68	Yes (10 bar 30 mins)

#### Temperature range

Static applications: -65°C to +135°C

Moving applications: -45°C to +150°C

#### Fitting characteristics





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# Liquid resistant flexible metallic conduit systems

- 44**            **Quick selection guide**
- 45**            **Liquid resistant flexible metallic  
conduit systems**
- 54**            **Braided liquid resistant metallic  
conduit systems**

## Liquid resistant flexible metallic conduit systems

### Quick selection guide

#### Quick selection guide



Conduit type	Type LFH-SP	Type SN	Type SP	Type SPTC	Type LFH-SPSS	Type SPB
Part number	LFH-SP	SN	SP	SPTC	LFH-SPSS	SPB
Conduit material	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel
Covering/overbraid	Polyolefin	PA (nylon)	PVC	PVC & tinned copper	Stainless steel low fire hazard jacket	PVC & galvanised steel
	Low Smoke	Zero Halogen	Oil and Chemical Resistant		EMI Screen	

#### Conduit colour

Black (BL)	■	■	■	-	-	-
Grey (GR)	-	-	■	-	-	-

#### IP rating (with appropriate fitting)

IP40	-	-	-	-	-	-
IP54	■	■	■	■	■	■
P65	■	■	■	-	-	-
P66	-	-	-	-	-	-
P67	-	-	-	-	-	-
P68	-	-	-	-	-	-
P69	-	-	-	-	-	-

#### Characteristics

##### Temperature range

Static applications (°C)	-20 to +90	-40 to +120	-25 to +70	-15 to +70	-20 to +90	-15 to +70
Moving applications (°C)	-5 to +105	-25 to +150	-5 to +90	-5 to +90	-5 to +105	-5 to +90
UV resistance	High	High	Very high	Very high	Very high	Very high
Flexibility	High	Medium	High	High	Medium	High
Fatigue life	Medium	Medium	Medium	Medium	Medium	Medium
Low fire hazard	Enhanced	-	-	-	Enhanced	-
Halogen free	■	■	-	-	-	-
Self extinguishing	■	■	■	■	■	■
EMI screen	-	-	-	High	Standard	Enhanced
High mechanical strength	■	■	■	■	■	■
High abrasion resistance	-	-	-	■	■	■

##### Approvals


BSI Kitemark	■	■	■	■	■	■
CE	■	■	■	■	■	■
UL / CSA	-	-	-	-	-	-
UR	-	-	-	-	-	-
DIN 5510-2	-	-	-	-	-	-
NF F	■	-	-	-	■	-
LUL 1-085	■	-	-	-	■	-
UNI CEI 11170	-	-	-	-	-	-
EN45545-2 to HL3	-	-	-	-	-	-

## Liquid resistant flexible metallic conduit systems

### Type LFH-SP conduit

Type LFH-SP

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	LFH-SP12/50M	12	13.8	10.3	30	50
	LFH-SP16/50M	16	17.3	13.0	35	50
	LFH-SP20/25M	20	21.5	16.9	45	25
	LFH-SP25/50M	25	26.0	21.4	55	50
	LFH-SP32/25M	32	33.5	28.1	60	25
	LFH-SP40/25M	40	44.5	37.7	80	25
	LFH-SP50/25M	50	54.9	48.2	90	25
	LFH-SP63/10M	63	64.3	57.5	115	10
	LFH-SP75/10M	75	79.0	70.0	150	10

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



EN45545-2 HL3 - R22 & R23



#### IP rating

For use with: Type SP

IP54 Type SP - Type A, B, C, E & F  
IP65 Type SP - Type M & C90

#### Appropriate fitting

#### Temperature range

Static applications: -25°C to +90°C  
Moving applications: -5°C to +105°C

#### Flexibility & fatigue life

High flexibility - Medium fatigue life

#### Fire Performance & EMI Screen

Self extinguishing  
Halogen Free

#### UV resistance

High




## Liquid resistant flexible metallic conduit systems




### Type SN conduit

Type SN

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

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

If interested in different coil lengths, do not hesitate to inquire


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

## Liquid resistant flexible metallic conduit systems

### Type SP conduit

Type SP

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SP10/BL/50M	10	10.1	7.0	25	50
	SP12/BL/50M	12	13.8	10.3	30	50
	SP16/BL/25M	16	17.2	13.0	35	25
	SP20/BL/25M	20	21.5	16.9	45	25
	SP25/BL/25M	25	26.0	21.4	55	25
	SP32/BL/25M	32	33.5	28.1	60	25
	SP40/BL/25M	40	44.5	37.7	80	25
	SP50/BL/25M	50	54.9	48.2	90	25
	SP63/BL/10M	63	64.3	57.5	115	10
	SP75/BL/10M	75	79.0	70.0	150	10

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



#### IP rating

For use with: Type SP

IP54 Type SP - Type A, B, C, E & F

IP65 Type SP - Type M & C90

#### Appropriate fitting

#### Temperature range

Static applications: -25°C to +70°C

Moving applications: -5°C to +90°C

#### UV resistance

Very high

#### Flexibility & fatigue life

High flexibility - Medium fatigue life

#### Fire Performance & EMI Screen

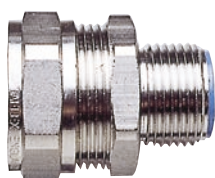
Self extinguishing

## Liquid resistant flexible metallic conduit systems

### SP Type M fitting

SP Type M fitting

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



Part no.	Nominal conduit size (mm)	Thread
<b>Metric thread</b>		
SP12/M16/M	12	M16
SP16/M16/M	16	M16
SP16/M20/M	16	M20
SP20/M20/M	20	M20
SP25/M25/M	25	M25
SP32/M32/M	32	M32
SP40/M40/M	40	M40
SP50/M50/M	50	M50
<b>PG thread</b>		
SP12/PG9/M	12	PG9
SP16/PG11/M	16	PG11
SP16/PG13/M	16	PG13,5
SP20/PG16/M	20	PG16
SP25/PG21/M	25	PG21
SP32/PG29/M	32	PG29
<b>NPT thread</b>		
SP16/038/M	16	3/8"
SP20/050/M	20	1/2"
SP25/075/M	25	3/4"
SP32/100/M	32	1"

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

#### Approvals



#### IP rating

For use with: All liquid resistant conduit

IP65

Yes

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### Fitting characteristics





## Liquid resistant flexible metallic conduit systems

### SP Type C90 fitting

SP Type C90 fitting

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



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

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

**Approvals**



**IP rating**

For use with: Type S / SS

IP65

Yes

**Temperature range**

Static applications: -50°C to +300°C

**Fitting characteristics**




## Liquid resistant flexible metallic conduit systems

### SP Type B fitting

SP Type B fitting

Swivel external thread / Materials: Nickel plated brass

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

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

#### Approvals



#### IP rating

For use with: All liquid resistant conduit

IP54

Yes

#### Temperature range

Static applications: -50°C to +350°C

Moving applications: -45°C to +250°C

#### Fitting characteristics

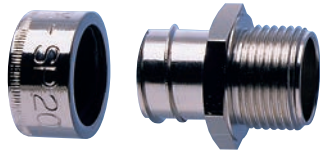


## Liquid resistant flexible metallic conduit systems

### SP Type A fitting

SP Type A fitting

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



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

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

#### Approvals



#### IP rating

For use with: All liquid resistant conduit

IP54

Yes

#### Temperature range

Static applications: -50°C to +300°C


Moving applications: -45°C to +250°C

## Liquid resistant flexible metallic conduit systems

### SP Type C & F fittings

#### SP Type C fitting

Smooth entry bush / Materials: Nickel plated brass

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

For locking conduit into plain holes in enclosures

#### Approvals



#### IP rating

For use with: All liquid resistant conduit

IP54

Yes


#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### SP Type F fitting

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

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

For external threads and other fittings

#### Approvals



#### IP rating

For use with: All liquid resistant conduit

IP54

Yes

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

## Liquid resistant flexible metallic conduit systems

### SP Type E terminator

SP Type E terminator

Conduit terminator / Materials: Nickel plated brass



**Part no.**

**Nominal  
conduit size  
(mm)**

SP12/E	12
SP16/E	16
SP20/E	20
SP25/E	25
SP32/E	32
SP40/E	40
SP50/E	50

Cable protection at exit point

**Approvals**



**IP rating**

**For use with:** All liquid resistant conduit

**IP54** Yes

**Temperature range**

Static applications: -50°C to +300°C


Moving applications: -45°C to +250°C

## Braided liquid resistant metallic conduit systems

EMI screen, liquid resistant Type LFH-SPSS conduit

Type LFH-SPSS

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	LFH-SPSS16/25M	16	18.0	13.0	35	25
	LFH-SPSS20/25M	20	22.5	16.9	45	25
	LFH-SPSS25/25M	25	27.0	21.4	55	25
	LFH-SPSS40/10M	40	45.5	37.7	80	10
	LFH-SPSS50/10M	50	56.0	48.4	90	10

If interested in different coil lengths, do not hesitate to inquire

### Approvals



### IP rating

For use with: Type SPB

IP54

### Appropriate fitting

Type SB - Type A & B

### Temperature range

Static applications: -20°C to +90°C

Moving applications: -5°C to +105°C

### Flexibility & fatigue life

Medium flexibility – Medium fatigue life

### Fire performance & EMI screen

Halogen free

### UV resistance

Very high

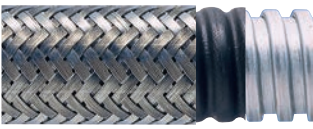


## Braided liquid resistant metallic conduit systems

EMI screen, liquid resistant Type SPTC conduit

Type SPTC

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SPTC10/25M	10	11.5	7.0	25	25
	SPTC12/25M	12	15.5	10.3	30	25
	SPTC16/25M	16	18.5	13.0	35	25
	SPTC20/25M	20	23.0	16.9	45	25
	SPTC25/25M	25	27.5	21.4	55	25
	SPTC32/10M	32	35.5	28.1	60	10
	SPTC40/10M	40	45.1	37.7	80	10
	SPTC50/10M	50	57.5	48.2	90	10

If interested in different coil lengths, do not hesitate to inquire

### Approvals



### IP rating

For use with: Type SB

IP54

### Appropriate fitting

Type SB - Type A & B

### Temperature range

Static applications: -15°C to +70°C

Moving applications: -5°C to +90°C

### Flexibility & fatigue life

High flexibility – Medium fatigue life

### Fire performance & EMI screen

Self extinguishing

### UV resistance

Very high




## Braided liquid resistant metallic conduit systems

EMI screen, liquid resistant Type SPB conduit

Type SPB

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SPB10/25M	10	11.5	6.8	25	25
	SPB12/25M	12	15.5	10.3	30	25
	SPB16/25M	16	18.5	13.0	35	25
	SPB20/25M	20	23.0	16.9	45	25
	SPB25/25M	25	27.5	21.4	55	25
	SPB32/10M	32	35.5	28.1	60	10
	SPB40/10M	40	45.1	37.7	80	10
	SPB50/10M	50	57.5	48.4	90	10

If interested in different coil lengths, do not hesitate to inquire

### Approvals



### IP rating

For use with: Type SPB

IP54

### Appropriate fitting

Type SB - Type A & B

### Temperature range

Static applications: -15°C to +70°C

Moving applications: -5°C to +90°C

### Flexibility & fatigue life

High flexibility – Medium fatigue life

### Fire performance & EMI screen

Self extinguishing

### UV resistance

Very high






## Braided liquid resistant metallic conduit systems

EMI screen, liquid resistant SPB Type A fitting

SPB Type A fitting

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

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

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

### Approvals



### IP rating

For use with: Type SPB / SPTC

IP54

Yes

### Temperature range

Static applications: -50°C to +300°C


Moving applications: -45°C to +250°C

## Braided liquid resistant metallic conduit systems

EMI screen, liquid resistant SPB Type B fitting

SPB Type B fitting

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

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

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

### Approvals



### IP rating

For use with: Type SPB / SPTC

IP54

Yes

### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

### Fitting characteristics



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# Superflexible metal conduit systems

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## Superflexible metallic conduit systems

### Quick selection guide



#### Quick selection guide

Conduit type	Type SS	Type S	Type SSB	Type STC	Type SB
Part number	SS	S	SSB	STC	SB
Conduit material	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel
Covering/overbraid	-	-	Stainless steel	Tinned copper	Galvanised steel
	High Corrosion	Corrosion		EMI Screen	

#### Conduit colour

Black (BL)	-	-	-	-	-
Grey (GR)	-	-	-	-	-

#### IP rating (with appropriate fitting)

IP40	■	■	■	■	■
IP54	-	-	-	-	-
P65	-	-	-	-	-
P66	-	-	-	-	-
P67	-	-	-	-	-
P68	-	-	-	-	-
P69	-	-	-	-	-

#### Characteristics

##### Temperature range

Static applications (°C)	-50 to +350	-50 to +300	-50 to +300	-50 to +300	-50 to +300
Moving applications (°C)	-45 to +250	-45 to +250	-45 to +250	-45 to +250	-45 to +250
UV resistance	Very high	Very high	Very high	Very high	Very high
Flexibility	High	High	High	High	High
Fatigue life	High	High	High	High	High
Low fire hazard	Inherent	Inherent	Inherent	Inherent	Inherent
Halogen free	■	■	■	■	■
Self extinguishing	-	-	-	-	-
EMI screen	-	-	Standard	High	Enhanced
High mechanical strength	■	■	■	■	■
High abrasion resistance	-	-	■	■	■

##### Approvals


BSI Kitemark	■	■	■	■	■
CE	■	■	■	■	■
UL / CSA	-	-	-	-	-
UR	-	-	-	-	-
DIN 5510-2	-	-	-	-	-
NF F	-	-	-	-	-
LUL 1-085	-	-	-	-	-
UNI CEI 11170	-	-	-	-	-
EN45545-2 to HL3	-	-	-	-	-

## Superflexible metallic conduit systems

### Type SS conduit

Type SS

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	SS10/50M	10	9.0	7.1	25	50
	SS12/25M	12	13.0	10.3	30	25
	SS16/25M	16	16.5	13.0	35	25
	SS20/25M	20	20.5	16.9	45	25
	SS25/25M	25	25.0	21.4	55	25
	SS32/25M	32	32.1	28.1	60	25

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



#### IP rating

For use with: Type S

IP40

#### Appropriate fitting

Type S - Type A, B, F & C

#### Temperature range

Static applications: -50°C to +350°C

Moving applications: -45°C to +250°C

#### Flexibility & fatigue life

High flexibility - High fatigue life

#### Fire Performance & EMI Screen

#### UV resistance

Very high




## Superflexible metallic conduit systems

### Type S conduit

#### Type S

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

	Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
	S10/50M	10	9.2	7.1	25	50
	S12/50M	12	13.0	10.3	30	50
	S16/50M	16	16.5	13.0	35	50
	S20/50M	20	20.5	16.9	45	50
	S25/50M	25	25.0	21.4	55	50
	S32/25M	32	32.0	28.1	60	25
	S40/25M	40	42.5	37.7	80	25
	S50/25M	50	53.0	48.4	90	25
	S63/10M	63	62.5	57.5	115	10
	S75/10M	75	77.0	70.0	150	10

If interested in different coil lengths, do not hesitate to inquire

#### Approvals



#### IP rating

For use with: Type S

IP40

#### Appropriate fitting

Type S - Type A, B, F & C

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### Flexibility & fatigue life

High flexibility - High fatigue life

#### Fire Performance & EMI Screen

#### UV resistance

Very high

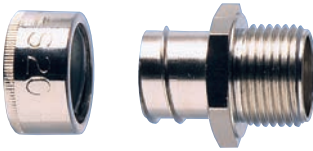


## Superflexible metallic conduit systems

### S Type A fitting

#### S Type A fitting

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

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

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

#### Approvals



#### IP rating

For use with: Type S / SS

IP40

Yes

#### Temperature range

Static applications: -50°C to +300°C

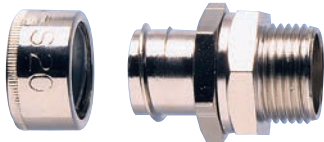
Moving applications: -45°C to +250°C

## Superflexible metallic conduit systems




### S Type B fitting

S Type B fitting

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

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

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

<b>Approvals</b>	<b>IP rating</b>	<b>Temperature range</b>	
  <small>KM35181</small>	<b>For use with:</b> Type S / SS <b>IP40</b>	Static applications: -50°C to +350°C Moving applications: -45°C to +250°C	
	Yes	<b>Fitting characteristics</b>	




## Superflexible metallic conduit systems

### S Type C & F fittings

#### S Type C fitting

Smooth entry bush / Materials: Nickel plated brass

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

For locking conduit into plain holes in enclosures

#### Approvals



#### IP rating

For use with: Type S / SS

IP40

Yes

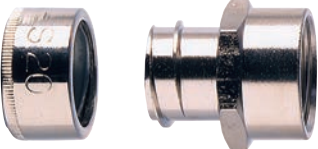
#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### S Type F fitting

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

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

For attaching to external threads & other fittings

#### Approvals



#### IP rating

For use with: Type S / SS

IP40

Yes

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

## Braided superflexible metallic conduit systems

### EMI screen Type STC conduit

Type STC

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

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
STC10/25M	10	12.0	7.1	25	25
STC12/25M	12	14.0	10.3	30	25
STC16/25M	16	17.5	13.0	35	25
STC20/25M	20	21.5	16.9	45	25
STC25/25M	25	26.0	21.4	55	25
STC32/25M	32	34.0	28.1	60	10
STC40/10M	40	43.6	37.7	80	10
STC50/10M	50	56.0	48.4	90	10



If interested in different coil lengths, do not hesitate to inquire

#### Approvals



#### IP rating

For use with: Type SB

IP40

#### Appropriate fitting

Type SB - Type A & B

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### UV resistance

Very high

#### Flexibility & fatigue life

High flexibility – High fatigue life

#### Fire performance & EMI screen



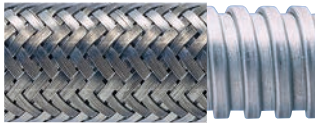
## Braided superflexible metallic conduit systems

### EMI screen Type SB conduit

Type SB

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

Part no.	Nominal conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bend radius (mm)	Reel length (m)
SB10/25M	10	12.0	7.1	25	25
SB12/25M	12	14.0	10.3	30	25
SB16/25M	16	17.5	13.0	35	25
SB20/25M	20	21.5	16.9	45	25
SB25/25M	25	26.0	21.4	55	25
SB32/10M	32	34.0	28.1	60	10
SB40/10M	40	43.6	37.7	80	10
SB50/10M	50	56.0	48.4	90	10
SB63/10M	63	65.0	57.5	115	10
SB75/10M	75	80.0	70.0	150	10



If interested in different coil lengths, do not hesitate to inquire

#### Approvals



#### IP rating

For use with: Type SB

IP40

#### Appropriate fitting

Type SB - Type A & B

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### UV resistance

Very high

#### Flexibility & fatigue life

High flexibility – High fatigue life

#### Fire performance & EMI screen



## Braided superflexible metallic conduit systems

### EMI screen Type SSB conduit





Type SSB

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

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



If interested in different coil lengths, do not hesitate to inquire


Approvals	IP rating	Appropriate fitting	Temperature range	UV resistance
 	For use with: Type SB		Static applications: -50°C to +300°C	Very high
	IP40	Type SB - Type A & B	Moving applications: -45°C to +250°C	
			<b>Flexibility &amp; fatigue life</b>	
			High flexibility – High fatigue life	
			<b>Fire performance &amp; EMI screen</b>	
			 	

## Braided superflexible metallic conduit systems

### EMI screen SB Type A & B fittings

#### SB Type A fitting

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

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

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

#### Approvals



#### IP rating

For use with: All superflexible conduit

IP40

Yes


#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### SB Type B fitting

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

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

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

#### Approvals



#### IP rating

For use with: All superflexible conduit

IP40

Yes

#### Temperature range

Static applications: -50°C to +300°C

Moving applications: -45°C to +250°C

#### Fitting characteristics

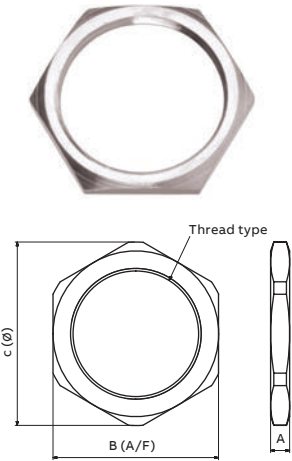


## Flexible metallic conduit systems

### Accessories - Locknuts



#### Stainless steel locknut

Female threaded locknut / Materials: 316 stainless steel

	Part no.	Thread size	Nominal dimensions (mm)		
			A	B	C
	<b>Metric</b>				
	LNSS/M16	M16 x 1.5	3.0	20.0	21.1
	LNSS/M20	M20 x 1.5	3.5	24.0	26.6
	LNSS/M25	M25 x 1.5	4.0	30.0	33.2
	LNSS/M32	M32 x 1.5	5.0	36.0	39.9
	LNSS/M40	M40 x 1.5	5.0	47.2	52.3
	LNSS/M50	M50 x 1.5	5.0	60.3	66.5
	LNSS/M63	M63 x 1.5	6.0	69.8	77.6
	<b>NPSL</b>				
	LNSS/038	3/8"	3.0	20.0	21.1
	LNSS/050	1/2"	3.0	27.0	30.0
	LNSS/075	3/4"	3.5	30.0	33.2
	LNSS/100	1"	5.0	38.0	42.0
	LNSS/125	1 1/4"	5.5	52.0	57.5
LNSS/150	1 1/2"	6.0	60.0	66.5	
LNSS/200	2"	7.0	69.8	77.0	

#### LNB / LNS locknut

Metallic locknuts / Materials: Nickel plated brass, galvanised steel

	Thread	Part no.		
		Nickel plated brass	Galvanised steel	
Type LNB metallic locknuts 	Metric			
	M10 x 1.0	LNB/M10 (under request)	-	
	M12 x 1.5	LNB/M12 (under request)	-	
	M16	LNB/M16	LNS/M16	
	M20	LNB/M20	LNS/M20	
	M25	LNB/M25	LNS/M25	
	M32	LNB/M32	LNS/M32	
	M40	LNB/M40		
	M50	LNB/M50		
	M63	LNB/M63		
	M75	LNB/M75		
	LNS locknut 	PG	Nickel plated brass	
		PG7	LNB/PG7	
PG9		LNB/PG9		
PG11		LNB/PG11		
PG13,5		LNB/PG13		
PG16		LNB/PG16		
PG21		LNB/PG21		
PG29		LNB/PG29		
PG36		LNB/PG36		
PG42		LNB/PG42		
PG48		LNB/PG48		
NPT		Steel		
3/8"		LNS/038		
1/2"	LNS/050			
3/4"	LNS/075			
1"	LNS/100			
1 1/4"	LNS/125			
1 1/2"	LNS/150			
2"	LNS/200			

#### Approvals



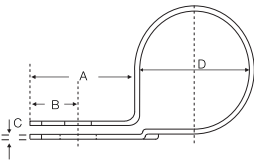
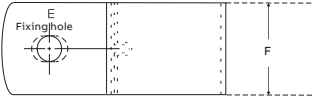
## Flexible metallic conduit systems

### Accessories - Clips

#### Stainless steel clip

Stainless steel clip / Materials: 316 stainless steel

Part no.	Metric conduit size (mm)	US conduit size (Trade size)	Nominal dimensions (mm)					
			A	B	C	D	E	F
SSPC16	16	3/8"	19.0	9.0	0.7	16	6.0	12.7
SSPC20	20	1/2"	19.0	9.0	0.7	20	6.0	12.7
SSPC25	25	3/4"	19.0	9.0	0.7	25	6.0	12.7
SSPC32	32	1"	19.0	9.0	0.7	32	6.0	12.7
SSPC40	40	1 1/4"	19.0	9.0	0.9	40	6.0	12.7
SSPC50	50	1 1/2"	19.0	9.0	0.9	50	6.0	12.7
SSPC63	63	2"	19.0	9.0	0.9	63	6.0	12.7



#### Approvals



Very high corrosion resistance, chemical resistance and fatigue life  
 Static applications: -50°C to +130°C  
 Moving applications: -5°C to +150°C

#### P-Clip

P-Clip Conduit Support / Materials: Plated steel or stainless steel construction with PVC insert

Plated steel part no.	Stainless steel part no.	Nominal conduit size (mm)
PCLIP/10	-	10
PCLIP/12	-	12
PCLIP/16	PCLIP/16SS	16
PCLIP/20	PCLIP/20SS	20
PCLIP/25	PCLIP/25SS	25
PCLIP/32	PCLIP/32SS	32
PCLIP/40	-	40
PCLIP/50	-	50
PCLIP/63	-	63
PCLIP/75	-	75



#### Approvals






## Flexible metallic conduit systems

### Accessories - Elbows adapters Type 90/45 & thread converters



#### Type 90/45 elbow adapter

Brass elbows / Materials: Nickel plated brass

	Metric external male thread	Metric internal female thread	Part no.	
			Type 90°	Type 45°
	M16	M16	B/M16/90	-
	M16	M20	-	B/M16/45
	M20	M20	B/M20/90	B/M20/45
	M25	M25	B/M25/90	B/M25/45
	M32	M32	B/M32/90	B/M32/45
			Part no.	
	PG external male thread	Metric internal female thread	Type 90°	
	PG9	M16	B/PG9/90	
	PG11	M16	B/PG11/90	
	PG13,5	M20	B/PG13/90	
	PG16	M20	B/PG16/90	
	PG21	M25	B/PG21/90	
<b>Approvals</b> 	NPT external male thread	Metric internal female thread	Type 90°	Part no. Type 45°
	1/2"	M20	B/050/90	B/050/45
	3/4"	M25	B/075/90	B/075/45

#### UNEF thread converter

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

	Internal thread	To M16	To M20	To M25	To M32
		internal thread	internal thread	internal thread	internal thread
	5/8" UNEF	B/063U-M16/TC	-	-	-
	3/4" UNEF	B/075U-M16/TC	B/075U-M20/TC	-	-
	7/8" UNEF	-	B/088U-M20/TC	-	-
	1" UNEF	-	B/100U-M20/TC	B/100U-M25/TC	-
	1 3/16" UNEF	-	B/119U-M20/TC	B/119U-M25/TC	-
	1 5/16" UNEF	-	B/131U-M20/TC	-	-
	1 7/16" UNEF	-	-	B/144U-M25/TC	B/144U-M32/TC
<b>Approvals</b> 					

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



## Flexible metallic conduit systems

Accessories - Female couplers & PSA coupler for proximity switches

### Female coupler

Brass internal female coupler / Materials: Nickel plated brass



**Part no.**

**Metric thread**

B/M16/C	M16
B/M20/C	M20
B/M25/C	M25
B/M32/C	M32
B/M40/C	M40
B/M50/C	M50
B/M63/C	M63
B/M75/C	M75

**Approvals**



### PSA coupler

Proximity switch connectors / Materials: Nickel plated brass



**Internal thread**

**To M16 internal thread**

**Part no.  
To PG9 internal thread**

M12 x 1.0	PSA16/M12	
M18 x 1.0	PSA16/M18	PSA9/M18
M30	PSA16/M30	PSA9/M30

**Approvals**



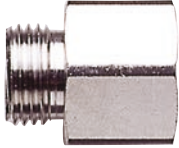


## Metallic conduit systems

Accessories - Type E enlargers, Type R reducers & Type TC converters

Type E / R / TC

Metallic locknuts / Materials: Nickel plated brass, galvanised steel

	External thread	To PG7 internal thread	To PG9 internal thread	To PG11 internal thread	To PG13,5 internal thread	
  	Type E, R & TC Enlargers, reducers & converters	M16	B/M16-PG7/TC	B/M16-PG9/TC	B/M16-PG11/TC	-
	M20	B/M20-PG7/TC	B/M20-PG9/TC	B/M20-PG11/TC	B/M20-PG13/TC	
	M25	-	-	-	-	
	M32	-	-	-	-	
	M40	-	-	-	-	
	M50	-	-	-	-	
	PG7	-	B/PG7-PG9/E	-	-	
	PG9	B/PG9-PG7/R	-	B/PG9-PG11/E	B/PG9-PG13/E	
	PG11	B/PG11-PG7/R	B/PG11-PG9/R	-	B/PG11-PG13/E	
	PG13,5	-	B/PG13-PG9/R	B/PG13-PG11/R	-	
	PG16	-	-	B/PG16-PG11/R	B/PG16-PG13/R	
	PG21	-	-	B/PG21-PG11/R	-	
	PG29	-	-	-	-	
	PG36	-	-	-	-	
	PG42	-	-	-	-	
	PG48	-	-	-	-	
		External thread	To M10 internal thread	To M12 internal thread	To M16 internal thread	To M20 internal thread
	M16	-	B/M16-M12/R	-	B/M16-M20/E	
	M20	B/M20-M10/R	B/M20-M12/R	B/M20-M16/R	-	
	M25	-	-	-	B/M25-M20/R	
	M32	-	-	-	-	
	M40	-	-	-	-	
	M50	-	-	-	-	
	PG7	-	-	B/PG7-M16/TC	B/PG7-M20/TC	
	PG9	-	-	B/PG9-M16/TC	B/PG9-M20/TC	
	PG11	-	-	B/PG11-M16/TC	B/PG11-M20/TC	
	PG13,5	-	-	B/PG13-M16/TC	B/PG13-M20/TC	
	PG16	-	-	B/PG16-M16/TC	B/PG16-M20/TC	
	PG21	-	-	B/PG21-M16/TC	B/PG21-M20/TC	
	PG29	-	-	-	B/PG29-M20/TC	
	PG36	-	-	-	-	
	PG42	-	-	-	-	
	PG48	-	-	-	-	
	½" NPT	-	-	B/050-M16/TC	B/050-M20/TC	

### Approvals







To PG16 internal thread	To PG21 internal thread	To PG29 internal thread	To PG36 internal thread
-	-	-	-
B/M20-PG16/TC	B/M20-PG21/TC	-	-
-	-	-	-
-	-	B/M32-PG29/TC	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
B/PG11-PG16/E	-	-	-
B/PG13-PG16/E	B/PG13-PG21/E	-	-
-	B/PG16-PG21/E	-	-
B/PG21-PG16/R	-	B/PG21-PG29/E	-
B/PG29-PG16/R	B/PG29-PG21/R	-	B/PG29-PG36/E
-	B/PG36-PG21/R	B/PG36-PG29/R	-
-	-	B/PG42-PG29/R	-
-	-	-	B/PG48-PG36/R
<hr/>			
To M25 internal thread	To M32 internal thread	To M40 internal thread	To ½" NPT internal thread
-	-	-	-
B/M20-M25/E	-	-	B/M20-050/TC
-	B/M25-M32/E	-	-
B/M32-M25/R	-	-	-
-	B/M40-M32/R	-	-
-	-	B/M50-M40/R	-
-	-	-	-
-	-	-	-
-	-	-	B/PG11-050/TC
-	-	-	-
B/PG16-M25/TC	-	-	-
B/PG21-M25/TC	B/PG21-M32/TC	-	-
B/PG29-M25/TC	B/PG29-M32/TC	B/PG29-M40/TC	-
-	B/PG36-M32/TC	B/PG36-M40/TC	-
-	-	-	-
-	-	-	-
-	-	-	-

## Convenience packs

Professional installer conduit systems

### Liquid resistant convenience - CP-AF20SP-B5

	Component item	Quantity	IP rating
	Black Type SP PVC covered steel 20mm NC	10m	
	Locknuts	10	
	Fixed M20 male fitting	5	IP54
	Swivel M20 male fitting	5	IP54

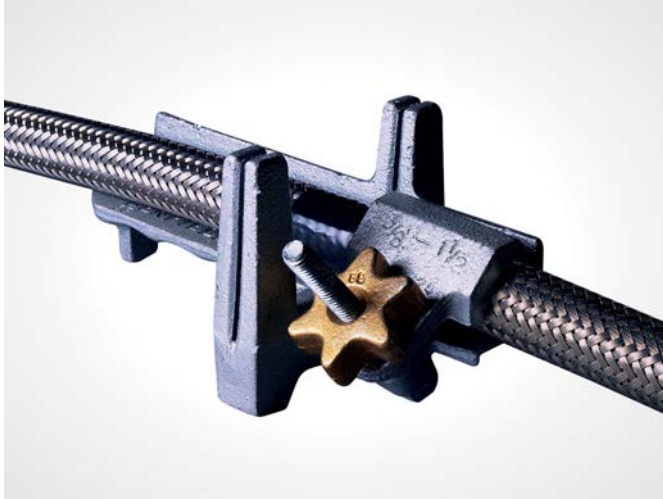
Convenience pack / Type SP Adaptasteel PVC covered steel conduit with fixed and swivel fittings  
Materials: PVC covered galvanised steel / Colour: Black (BL)

### Approvals



## Tools

### Cut-vice & Rotocut



—  
Cut-vice

Cut-vice cutting tool

Part no.

CUT-VICE

#### Cut-vice

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

#### Instructions

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



—  
Rotocut

Rotocut cutting tool

Part no.

ROTOCUT

#### Rotocut

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

#### Instructions

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

## Technical section

### Thread data

#### Metric thread data

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

Standard thread conforming to EN60423 & BS3643  
NOTE: Dimensions are nominal

#### PG thread data

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

German standard thread conforming to DIN40430  
NOTE: Dimensions are nominal

#### PF thread data

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

Japanese conduit thread conforming to JIS B 0202  
NOTE: Dimensions are nominal

#### UNEF / UNS thread data

Thread size (in)	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch (mm)
⅝	15.9	14.7	1.06
¾	19.1	17.7	1.27
1 <sup>3</sup> / <sub>16</sub>	20.6	19.3	1.27
7/8	22.2	20.9	1.27
1 <sup>5</sup> / <sub>16</sub>	23.8	22.4	1.27
1	25.4	24.0	1.27
1 ⅛	28.6	27.0	1.41
1 <sup>3</sup> / <sub>16</sub>	30.2	28.6	1.41
1 ¼	31.8	30.2	1.41
1 <sup>5</sup> / <sub>16</sub>	33.3	31.8	1.41
1 ⅜	34.9	33.4	1.41
1 <sup>7</sup> / <sub>16</sub>	36.5	35.0	1.41
1 ¾	44.5	42.9	1.41
2	50.8	49.3	1.59
2 ¼	57.2	55.4	1.59

American Unified thread conforming to BS1580  
NOTE: Dimensions are nominal

#### NPT thread data

Thread size (in)	External thread outside diameter (mm)	Pitch (mm)
⅝	16.7	1.14
½	21.0	1.81
¾	26.4	1.81
1	33.3	2.21
1 ¼	41.9	2.21
1 ½	47.8	2.21
2	59.6	2.21

US taper seal pipe thread conforming to ANSI/ASME B1.20.1 - 1983  
NOTE: Dimensions are nominal

## Technical section

### EMI screen system & fire performance

#### EMI screen system

For applications where electromagnetic interference is of particular concern we have classified suitable conduit systems by means of symbols. These are related in an ascending scale of performance from Standard EMI Screen (products featuring a stainless steel overbraid) through to High EMI Screen (products featuring a tinned copper overbraid). Contact us for full details.



Standard EMI Screen	Enhanced EMI Screen	High EMI Screen
Screening level 40db @ 100MHz	Screening level 60db @ 100MHz	Screening level 75db @ 100MHz

#### Fire performance

Adaptaflex has introduced a set of symbols to help the user specify conduit systems for installations where fire performance is of particular concern.

Each symbol encompasses a range of properties relevant to the high specification materials used in the construction of the conduit.

They are in an ascending scale of performance from Low Fire Hazard (LFH) featuring zero halogen through to Super Low Fire Hazard (SLFH) featuring zero nitrogen. In addition, Inherent Low Fire Hazard systems (ILFH) are classified as being all metal systems.



Property	Low Fire Hazard	Enhanced Low Fire Hazard	Super Low Fire Hazard	Inherent Low Fire Hazard
	LFH	ELFH	SLFH	ILFH
Oxygen Index ISO4589	31% ≥ OI ≥ 28%	OI ≥ 32%	OI ≥ 32%	Inherent Low Fire Hazard i.e. Type S, SS, SPB STC, SSB & SSBGS Metallic conduit & fittings
BS6853 Smoke Density 3m <sup>3</sup>	0.02 ≥ A0 ≥ 0.03	0.005 ≥ A0 ≥ 0.02	0.02 A0 ≤ 0.005	
Zero Halogen	■	■	■	
Zero Phosphorus	■	■	■	
Zero Sulphur	■	■	■	
London Underground	Concession	Approved	Approved	
Toxicity Index NES713 Issue 3	5.0 ≥ TI ≥ 6.0	0.5 ≥ TI ≥ 5.0	TI ≤ 0.5	
NFF16-102	I3F2	I2F2	I2F1	

## Technical section

### IP ratings

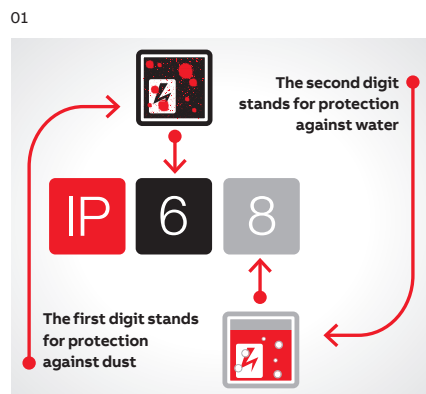
IP suitability ratings are a system for classifying the degree of protection provided by enclosures of electrical equipment.

#### Protection against solid bodies

Degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.

	<b>0</b>	No protection
	<b>1</b>	Objects greater than 50mm, accidental touch by hands
	<b>2</b>	Objects greater than 12mm, accidental touch by fingers
	<b>3</b>	Objects greater than 2.5mm, e.g. tools/wires
	<b>4</b>	Objects greater than 1mm, e.g. tools/wires/small wires
	<b>5</b>	Protected against dust – limited ingress (no harmful deposits)
	<b>6</b>	Totally protected against dust (dust-tight)

**01 IP ratings**  
The higher the number, the greater the degree of protection; they apply **ONLY** to properly installed equipment.



#### Protection against water

Degree of protection of equipment inside enclosures against damage from the ingress of water.

	<b>0</b>	No protection
	<b>1</b>	Protected against vertically falling drops of water
	<b>2</b>	Protected against direct sprays of water 15° from vertical
	<b>3</b>	Protected against sprays of water to 60° from vertical
	<b>4</b>	Protected against water sprayed from all directions – limited ingress permitted
	<b>5</b>	Protected against low pressure jets of water from all directions – limited ingress permitted
	<b>6</b>	Protected against strong pressure jets of water, heavy seas – limited ingress permitted
	<b>7</b>	Protection against the effects of immersion between 15cm – 1m
	<b>8</b>	Protection against long periods of immersion under a quoted pressure, e.g. 2 bar at 24 hours
	<b>9</b>	IP69 Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80 bar) from any angle



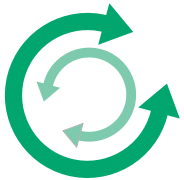
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## Technical section

### Fitting characteristics



Fitting swivels independently of conduit for installation purpose but is not suitable as a rotating joint in constantly moving applications.



Fitting rotates independently of the conduit to act as a rotating joint within constantly moving applications.

## Technical section

### Chemical resistance

Chemical resistance comparison table

Chemicals	Products														
	PA, PR, PADL, SN	PI, PF	CP	KF, RF, SP	PP	PK	Fittings PA66	ATS Elastomer Seal	S (including braid)	SS (including braid)	LFH-SP	SPL, SPUL	SPLHC	TC braid	Fittings nickel plated brass
Astm no.1	2	2	2	0	2	2	2	2	2	2	0	2	2	2	2
Astm no.2	2	2	2	0	2	2	2	2	2	2	1	2	1	2	2
Astm no.3	2	2	2	0	1	2	2	2	2	2	1	2	1	2	2
Acetic Acid (10%)	1	1	2	1	2	2	1	1	0	2	2	2	2	1	2
Acetone	2	2	1	0	2	2	2	1	2	2	0	0	2	2	2
Aluminium chloride	1	2	0	1	2	2	1	2	0	1	2	2	2	1	-
Aniline	1	0	0	0	2	1	1	0	2	2	1	0	2	2	2
Benzaldehyde	1	1	1	0	1	2	1	1	2	2	0	0	1	2	2
Benzene	2	2	1	0	1	2	2	1	2	2	0	0	0	2	2
Carbon tetrachloride	2	2	0	1	1	2	2	1	2	2	0	1	1	2	2
Chlorine water	0	0	1	0	1	0	0	0	0	0	1	0	2	0	2
Chloroform	0	0	0	0	1	2	0	1	2	2	0	0	1	2	2
Citric acid	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Copper sulphate	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2
Cresol	0	0	-	1	2	1	0	0	2	2	0	1	2	1	2
Diesel oil	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2
Diethylamine	2	1	1	1	2	2	2	0	2	2	2	1	2	2	2
Ethanol	2	1	2	0	2	2	2	1	2	2	1	0	2	2	2
Ether	2	2	-	1	2	2	2	2	2	2	0	1	2	2	2
Ethylamine	2	1	-	1	2	2	2	0	2	2	1	1	1	2	2
Ethylene glycol	2	2	2	1	2	2	2	2	0	2	2	1	2	2	2
Ethyl ethanoate	1	2	2	0	2	2	1	0	2	2	0	0	2	2	2
Freon 32	2	2	2	1	2	2	2	1	0	2	0	1	0	2	2
Hydrchloric acid (10%)	0	1	1	2	2	2	0	1	0	0	0	2	2	0	2
Hydrchloric acid (36%)	0	0	0	1	2	2	0	0	0	0	0	2	2	0	2
Hydrogen peroxide (35%)	1	1	1	2	2	2	1	0	0	2	1	2	1	2	2
Hydrogen peroxide (87%)	0	0	0	2	1	2	0	0	0	2	0	2	0	1	2
Lactic acid	1	2	0	1	2	2	1	2	0	2	2	1	1	2	2
Lubricating oil	2	2	2	1	2	2	2	2	2	2	1	2	1	2	2
Methanol	1	1	2	0	2	2	1	1	2	2	1	0	2	2	2
Methyl bromide	0	0	-	0	1	2	0	0	2	2	0	0	1	2	2
MEK	2	2	2	1	0	2	2	2	1	2	2	0	0	2	2
Nitric acid (10%)	0	0	1	2	2	2	0	0	0	0	2	2	2	0	2
Nitric acid (70%)	0	0	0	2	2	0	0	0	0	0	0	2	2	0	2
Oxalic acid	1	2	1	1	2	2	1	1	0	2	2	2	2	1	2
Ozone (gas)	0	0	-	1	1	2	0	2	0	2	2	1	1	2	2
Paraffin oil	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2
Petrol	2	2	2	0	2	2	2	2	2	2	0	2	2	2	2
Phenol	0	0	0	1	0	1	0	1	2	2	0	1	2	1	2

**Chemical resistance comparison table**

Chemicals	Products														
	PA, PR, PADL, SN	PI, PF	CP	KF, RF, SP	PP	PK	Fittings PA66	ATS Elastomer Seal	S (including braid)	SS (including braid)	LFH-SP	SPL, SPUL	SPLHC	TC braid	Fittings nickel plated brass
Sea water	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1
Silver nitrate	2	2	-	2	2	2	2	2	0	2	2	2	2	2	2
Skydrol	2	2	2	0	2	2	2	1	2	2	0	0	2	2	2
Sodium chloride	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1
Sodium hydroxide (10%)	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2
Sodium hydroxide (60%)	2	1	0	1	2	2	2	1	0	1	2	2	2	2	2
Sulphur dioxide (gas)	0	0	1	2	2	2	0	0	0	0	1	2	2	1	0
Sulphuric acid (10%)	0	1	2	2	2	2	0	1	0	0	2	2	2	0	0
Sulphuric acid (70%)	0	0	0	2	2	0	0	0	0	0	1	2	2	0	0
Toluene	2	2	1	0	2	2	2	0	2	2	1	0	0	2	2
Transformer oil	2	2	2	1	2	2	2	2	2	2	1	2	1	2	2
1,1,1-Trichloroethane	2	2	1	0	1	2	2	1	0	2	1	0	1	2	2
Trichloroethylene	1	0	0	0	1	2	1	1	0	2	1	0	0	2	2
Turpentine	2	2	2	1	0	2	2	1	2	2	0	1	0	2	2
Vegetable oil	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2
Vinyl acetate	1	2	-	0	2	2	1	0	0	2	0	0	2	2	2
Water	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2
White spirit	2	2	-	1	2	2	2	1	2	2	0	1	1	2	2
Zinc chloride	0	2	1	2	2	2	0	2	0	2	2	2	2	1	2

**Note:** The information above is given as a guide only and is based on published technical data and experience.

The chemical resistance of the above products is dependent on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C.

Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks.

The end user should assess compatibility with their application and contact Adaptaflex for further information.

**Technical section**

Cable carrying capacity (wire fill)

**40% of the cross sectional area (CSA)** - 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'.

These instructions enable you to select the correct nominal diameter of metallic conduit, depending on the number and overall diameter of the cables to protect.

**Instructions to define the nominal diameter of a metallic conduit:**

- **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) and choose a conduit with a 40% fill value higher than the total CSA from Step 3

**Example - What size of conduit to use?**

- **Step 1:** 4 x 2.5mm cables, 2 x 10mm cables, and 6 x 6mm cables
- **Step 2:**
  - The CSA of Four 2.5mm cables is 19.64 (4 x 4.91)
  - The CSA of Three 10mm cables is 235.62 (3 x 78.54)
  - The CSA of Six 6mm cables is 169.62 (6 x 28.27)
- **Step 3:** Total of these groups is 19.64 + 235.62 + 169.62 = 424.88
- **Step 4:** Using Table 2, we chose the size of metallic conduit with 40% fill value higher than 424.88: 50mm

**NOTE:** The information given above relates to SPL liquidtight conduit in combination 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.

**Table 1 - Cross Sectional Area (CSA) chart**

Cross sectional area (CSA) [mm²]	Overall Diameter [mm]	CSA [mm²]
	1	0.79
	1.5	1.77
	2.5	4.91
	4	12.57
	6	28.27
	10	78.54
	16	201.06
	25	490.87
	35	962.11
	50	1963.50

**Table 2 - Wire fill of metallic conduit**

Nominal diameter (mm)	100% fill value	40% fill value
12	25.5	10.2
16	83.3	33.3
20	160.6	64.2
25	243.3	97.3
32	452.4	181
40	855.3	342.1
50	1164.2	465.7
63	1963.5	785.4
75	3473.3	1389.3

## Technical section

### IEC61386 classifications

Metallic- IEC61386 classifications table

	With fitting	Compression strength	Impact strength	Minimum temperature	Maximum temperature	Bending properties	Electrical properties	IP rating solids	IP rating water	Corrosion resistance	Tensile strength	Products		
												Non-flame propagating	Suspended load capacity	
<b>Metallic conduit</b>														
SAMHURL	SPL	4	4	2	5	4	2	6	9	-	4	1	5	
SSAMHL	SPL	4	4	2	5	4	2	6	9	-	4	1	5	
SAMHL	SPL	4	4	2	5	4	2	6	9	-	4	1	5	
EMIEF-SPL,	SPL (M)	4	4	2	3	4	2	6	9	-	4	1	5	
EMILFH-SPL	SPL (M)	4	4	2	3	4	2	6	9	-	4	1	5	
SPL-EF	SPL (M)	4	4	2	3	4	2	6	7	-	4	1	5	
LFH-SPL	SPL (M)	4	4	2	3	4	2	6	7	-	4	1	5	
SSPLHC	SPL(M)	4	4	5	5	4	0	6	7	-	4	1	5	
SPLHC	SPL(M)	4	4	5	5	4	0	6	7	-	4	1	5	
SPUL	SPL(M)	4	4	2	5	4	0	6	7	-	4	1	5	
SSPL	SPL(M)	4	4	2	3	4	2	6	7	-	4	1	5	
SPL	SPL(M)	4	4	2	3	4	2	6	7	-	4	1	5	
SPLHCB	SPLB	4	4	5	5	4	1	6	7	-	5	1	5	
LFH-SP	SP(M)	4	4	2	3	4	0	6	5	-	4	1	5	
SN	SP(M)	4	4	4	5	4	0	6	5	-	4	1	5	
SP	SP(M)	4	4	2	2	4	2	6	5	-	4	1	5	
SPTC	SPB	4	4	2	2	4	3	5	4	-	4	1	5	
LFH-SPSS	SP(M)	4	4	5	6	4	1	4	0	-	4	1	5	
SPB	SP(M)	4	4	2	2	4	3	5	4	-	4	1	5	
SS	S	4	4	5	6	4	0	4	0	1	4	1	5	
S	S	4	4	5	6	4	0	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	
SB	SB	4	4	5	6	4	1	4	0	1	4	1	5	

Performance classification key

Classification level	(N)	(J)	(°C)	(°C)				(N)	(N)			
0						Not declared		0	N/A	Not declared	Not declared	
1	125	0.5	5	60	Rigid	Conductor		1	Low	100	4	20
2	320	1	-5	90	Pliable	Insulator		2	Medium	250	7	30
3	750	2	-15	105	Pliable/ semi rigid	Con/Ins	3	3	Med-hi	500		150
4	1250	6	-25	120	Flexible		4	4	High	1000		450
5	4000	20	-45	150			5	5		2500		850
6				250			6	6				
7								7				

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