Product Overview

Flexible conduit systems for critical power & data cable protection

Adaptaflex

Power and productivity for a better world™

ABB

Adaptaflex
Company overview

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

Adaptaflex is a market leading flexible conduit system brand, which combines innovative design with dedicated manufacture to offer 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. Able to perform in a wide variety of environments from high temperature to freezing sub-zero conditions, the products are also designed and tested to withstand constant vibrations, water ingress, offer corrosion resistance and are available in halogen free, low smoke and low toxicity materials for even the most technically demanding markets.

Whatever your project involves our experience will provide the answer helping you to specify the correct flexible conduit system.

Adaptaflex
Markets & industries

1 Construction | 2 Machinery | 3 Data cabling | 4 Mechanical

Markets and industries

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

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

The design and specification of our product range is application led, whether that be providing innovative solutions to industry problems, saving installation and component costs, or simply improving the quality and integrity of the conduit system.

Non-metallic conduit systems
Non-metallic conduit

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

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

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

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

Type PA
Light, Standard & Heavyweight

Approvals

Characterictics:
- Polyamide 6 (Nylon), black/grey
- High flexibility - High fatigue life
- Self-extinguishing, very high UV resistant & halogen free
- IP40 - IP68 Rated (Dependent on fitting)
- Low fire hazard (LFH)

Type PI
Standard & Heavyweight

Approvals

Characterictics:
- Modified Polyamide (Nylon) 11, black/grey
- Very high flexibility & fatigue life
- Self-extinguishing, very high UV resistant & halogen free
- IP40 - IP69 Rated (Dependent on fitting)

Type PR
Standard Weight Conduit

Approvals

Characterictics:
- Modified Polyamide (Nylon) 6, black only
- Very high flexibility & fatigue life
- Self-extinguishing, very high UV resistant & halogen free
- EN45545-2 HL2 - R22 & R23 Approved
- IP40 - IP69 Rated (Dependent on fitting)
- Enhanced low fire hazard (ELFH)

Type PKTC / PKSS
High Specification - Polyetherketone

Approvals

Characterictics:
- Tinned copper / Stainless steel overbraid
- EMI Screening conduit
- Good mechanical strength and chemical resistance
- Self-extinguishing, very high UV resistant & halogen free
- IP66-IP67 Rated
- Super low fire hazard (SLFH)
- Temp range: -60°C to +260°C

Non-metallic conduit systems
Non-metallic fittings

Adaptalok ATS™ represents a unique and innovative solution in flexible conduit systems. Until now, manufacturers have produced fittings and seals separately, and assembled them together, or had the customer assemble them.

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

Adaptalok ATS™ fittings
One-Piece Polyamide (Nylon) 66 Fittings

Approvals

Characterictics:

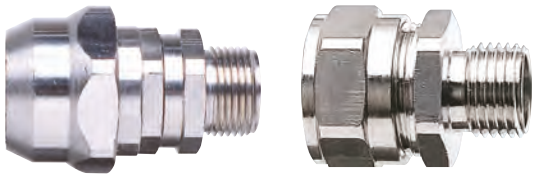
- One-piece fitting with integrated seal and proven clip to lock design
- Polyamide 66 halogen free, black/grey
- IP66, IP67, IP68 (4 bar 30mins), IP69
- Straight, 90º & 45º elbow versions
- Metric threads, PG, NPT & UNEF
- Male, female & nickel plated brass thread options

Adaptalok fittings
Polyamide (Nylon) 66 Fittings

Approvals

Characterictics:

- Polyamide (Nylon) 66, black/grey
- Male, female & nickel plated brass thread options
- One-piece fitting with ALS insert seal
- IP66, IP67, IP68, IP69
- Straight, 90º & 45º elbow versions
- Metric threads, PG, NPT & UNEF



Peek / Hi-Spec fittings
High Specification - Polyetherketone

Approvals

Characterictics:

- Suitable for use with PK overbraided conduits
- Nickel plated brass
- Fixed and swivel external male thread version available
- IP66-IP67 Rated
- Temp range: -60ºC to +260ºC
- Inherent low fire hazard (ILFH)

Metallic conduit systems
Metallic conduit

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

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

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

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

Type S & SS
Inherent Low Fire Hazard Steel Conduit

Approvals

KM35161 LOW VOLTAGE DIRECTIVE

Characterictics:

- General purpose & commercial indoor applications - inherent low fire hazard
- Galvanised / Stainless steel 316
- High compression/crush strength
- Very good mechanical strength and temperature resistance (300°C)
- High flexibility - High fatigue life
- IP40 Rated

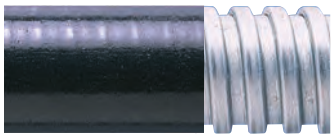
Type SP / SN
Liquid Resistant Covered Steel Flexible Conduit

Approvals

KM35161 LOW VOLTAGE DIRECTIVE

Characterictics:

- Type SP PVC coated galvanised steel
- Type SN PA (Nylon) Covered Galvanised Steel
- High / Very high UV resistance
- Self-extinguishing
- IP40 & IP65 Rated (depending on fitting)
- Medium / High flexibility and medium fatigue life
- Type SN temp range: -25°C to +70°C
- Type SP temp range: -40°C to +120°C



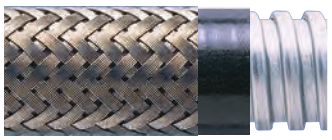
Type SPL / SPLHC
Liquid Tight Oil / Temperature Resistant

Approvals

KM35161 LOW VOLTAGE DIRECTIVE

Characterictics:

- Type SPL - PVC coated galvanised steel
- Type SPLHC - Thermoplastic Rubber Covered Galvanised Steel
- Very high UV resistance
- Type SPL temp range: -20°C to +105°C
- Type SPLHC temp range: -65°C to +135°C
- Self-extinguishing, Type SPLHC also Halogen free
- Medium / Very high flexibility and fatigue life
- IP66-IP69 Rated (depending on fitting)



Type SPLHCB
Extreme Temperature, Abuse Resistant, Overbraided, Standard EMI Screening, Flexible Conduit

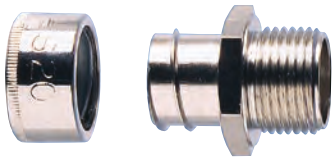
Approvals

KM35161 LOW VOLTAGE DIRECTIVE

Characterictics:

- Galvanised steel conduit, smooth thermoplastic rubber covering, Stainless Steel 316 Overbraid
- Self-extinguishing & halogen free
- Very high UV resistance
- Very high flexibility - High fatigue life
- Temp range: -65°C to +135°C
- IP66-IP68 Rated (dependent on fitting)

Non-metallic conduit systems
Non-metallic fittings

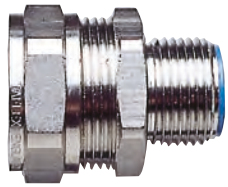


Type A & B - Adaptasteel
Straight Fitting

Approvals

Characterictics:

- General, industrial & commercial applications
- Swivel & fixed external male thread available
- Nickel plated brass
- IP40 Rated

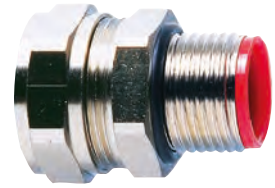


Type M fittings
Suitable for Liquid Resistant Conduit

Approvals

Characterictics:

- General, Industrial & commercial applications
- Straight Swivel Fitting - External Male Thread
- Nickel plated brass
- IP65 Rated
- Temp range: -50°C to +150°C



Type M fittings
Suitable For Liquid Tight Conduit

Approvals

Characterictics:

- General & industrial applications
- Straight Swivel Fitting - External Male Thread
- IP64, I67, IP68 (10 bar 30mins) & IP69 Rated
- UL514B File No. E60625 certified
- Nickel plated brass
- Temp range: -65°C to +150°C

Type A & B fittings
Suitable for SPLHCB Conduit

Approvals

Characterictics:

- General & industrial applications
- Straight fitting - fixed and swivel external male thread options
- IP64, I67, IP68 (10 bar 30mins) & IP69 Rated
- Nickel plated brass
- Temp range: -65°C to +135°C

As one of the world leading flexible conduit system manufacturers, Adaptaflex has gained many international approvals.

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

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