PRODUCT CATALOGUE

Kopex

Conduit systems & accessories

Kopex flexible conduit systems offer reliable protection for critical power and data cabling in transport, construction and industrial applications.

Founded in 1947, Kopex has been at the cutting-edge of electrical and data conduit systems for over 65 years, with quality assurance in manufacture backed up by accreditations from recognised global standards.

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Introduction
Company overview

At Kopex, our focus is on providing practical, reliable cable protection for transport, construction and industrial applications - to connect & protect for life and to solve everyday problems both safely and cost-effectively.

Having been originally founded in Slough UK in 1947, Kopex has also been part of ABB since 2012. Together as brands, ABB Kopex enables those operating in utilities, transport and infrastructure to improve performance, whilst lowering environmental impact.

Our extensive engineering, supply chain management and technical sales support teams are committed to understanding everything that impacts your ability to accomplish your business objectives by reducing your total cost of ownership.

Whether you are designing, installing or operating within an office building, off-shore platform, hospital, high speed train, power generating plant or manufacturing facility, our engineered products fit and function in your application whilst providing superior performance, sustainability, and value throughout the project life cycle.

The Kopex brand within the wider ABB offering, is focussed on covering the protection of business-critical data, energy, processes and assets, as well as personal safety.

Beyond these applications, ABB products and services facilitate greater efficiency in time-critical assembly, installation and maintenance processes.

The ABB Group of companies operates in around 100 countries and employs about 140,000 people around the world. Through this dedicated team, we can support you with a full set of services and flagship product brands.

ISO14001 and ISO45001
Environmental standard
Kopex solutions are designed with consideration for future recyclability and disposal with minimum impact on the environment at the end of product lifecycle. At present materials currently used for most of our conduits, fittings and accessories are recyclable if disposed of in line with current regulations, keeping the materials separate. Standard packaging materials are fully recyclable.

Key industry applications
Construction & transport infrastructure

As a globally renowned leader in cable protection, Kopex offer a range of specialist solutions for construction, transport infrastructure and industrial applications. The Kopex name stands for quality and reliability, with assured manufacture backed up by global product accreditations.

When it comes to construction and transport infrastructure, there is increasing demand for easy-to-install cable protection solutions, that also offer the increased safety and technical performance that many municipal buildings require. For these applications, systems that are a low fire hazard (LFH), liquid tight and are made from halogen-free, self-extinguishing materials, are essential.
Where exposed interiors call for design consideration, conduits of different colours and materials, such as stainless steel for interior styling, are also required.

On both fronts Kopex delivers, providing flexible conduit solutions that meet safety and security requirements whilst also meeting the aesthetic needs associated with buildings and transport structures. With prestigious BSI Kitemark approval and ingress protection (IP) ratings suited to purpose, the Kopex system ensures quality and performance at every level.

Common applications:

- Commercial office buildings
- Infrastructure projects - stations, tunnels, signalling
- Schools
- Hospitals
- Retail developments
- Hotels & leisure complexes
- Sports stadiums

Project references:

- Channel tunnel
- London Underground (tunnels, stations and rolling stock on central line, jubilee line-northern line)
- Heathrow Airport tunnel
- Hong Kong mass transit railway
- Canary Wharf (London)
- Etisalat Building (Dubai)
- City Tower 2 (Dubai)
- French Navy (Frigates and aircraft carrier)
- Saudi Aramco (Oil rigs)
- Darlington Power Plant (Canada)

Quick selection guide

Conduit systems

Selection guide





Conduit Type	FLHTB	FST	FLT	FSH	FLH
Product Selection					
Liquid Tight	•	•	•	•	•
KE Ultra	–	–	–	–	–
Stainless Steel	–	•	–	•	–
IP Rating (with appropriate fittings)					
IP40	–	–	–	–	–
IP54	–	–	–	–	–
IP65	–	–	–	–	–
IP66	•	•	•	•	•
IP67	•	•	•	•	•
Characteristics					
High mechanical strength	•	•	•	•	•
Oil and chemical resistant	•	•	–	•	•
Zero Halogen	•	•	•	–	–
Limited fire hazard	•	•	•	–	–
Flame retardant	•	•	•	•	•
Inherent low fire hazard	–	–	–	–	–
Enhanced low fire hazard	•	•	•	–	–
Abrasion resistant	•	–	–	–	–
Temperature Rating					
Static temperature	-40°C to +105°C	-20°C to +90°C	-20°C to +90°C	-50°C to +130°C	-50°C to +130°C
Flexing temperature	-30°C to +105°C	-5°C to +105°C	-5°C to +105°C	-45°C to +130°C	-45°C to +130°C
Approvals					
BSI Kitemark	•	•	•	•	•
CE	•	•	•	•	•
UL	–	–	–	–	–
CSA	–	–	–	–	–
LUL	•	•	•	–	–
EN 45545-2	•	•	•	–	–
NFPA 130	•	•	•	–	–
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FUB UL / CSA	FLB	KEBT	KEBF	KSU	KEU
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-20°C to +105°C	-20°C to +105°C	-20°C to +90°C	-25°C to +70°C	-65°C to +350°C	-50°C to +300°C
-5°C to +105°C	-5°C to +105°C	-5°C to +105°C	-5°C to +90°C	-45°C to +250°C	-45°C to +250°C
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13	13	17	17	22	23

Flexible metallic conduit systems

Type FLHTB - Liquid tight system

The FLHTB conduit systems are Enhanced Fire Performance rated, highly flexible, liquid tight with a wide temperature operating range.

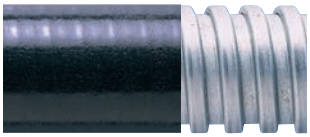
Designed to meet the demand for 'interoperability' and compliance with stringent local and European fire safety requirements in the rail infrastructure market, the FLHTB system, is accredited with the EN45545-2 standard achieving the highest HL3 fire performance rating for both interior and exterior 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.

Features and benefits

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

Type FLHTB – Enhanced fire performance covered steel flexible conduit Materials: Thermoplastic jacket covered galvanised steel / Colour: Black

	Black Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Static bend radius (mm)	Coil lengths (m)
	FLHTB01*	10.0	1/4	11.8	7.0	40.0	10/30
	FLHTB02*	12.0	5/16	14.2	10.0	25.0	10/30
	FLHTB03*	16.0	3/8	17.8	12.5	35.0	10/30
	FLHTB04*	20.0	1/2	21.0	16.0	42.0	10/30
	FLHTB05*	25.0	3/4	26.4	21.0	52.0	10/20
	FLHTB06*	32.0	1	33.1	26.1	66.0	10/20
	FLHTB07*	40.0	1 1/4	41.8	35.3	84.0	10/20
	FLHTB08*	50.0	1 1/2	47.7	40.4	100	10/20

*Add coil length to complete part number, e.g. 10 metres of FLHTB 10mm in black is FLHTB0110.

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
UL94 V0 / BS6853 Class 1A

Approvals
EN45545-2 HL3 R22 & R23 / NFF16-101 I1 F1 / LUL 1-085
NFPA130 / ASTM E 162, ASTM E 662 and Bombardier SMP 800-C
Temperature range
Static temperature: -40°C to +105°C
Flexing temperature: -30°C to +105°C
Flexibility & fatigue life
Very high flexibility - high fatigue life

Fire performance	
Limited fire hazard, flame retardant	
Low smoke, zero halogen	
IP Rating (with appropriate fittings)	
IP69	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM
IP67	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM
IP66	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM

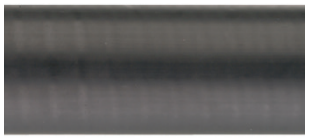
UV Resistance
Very high

Flexible metallic conduit systems

Type FST & FLT - Liquid tight system

Type FST – Low fire hazard, liquid tight conduit

Materials: Stainless steel AISI 316L core - String packing with low fire hazard covering / Colour: Black



Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
FST02*	12.0	5/16	14.2	10.0	10/30
FST03*	16.0	3/8	17.8	12.5	10/30
FST04*	20.0	1/2	21.1	15.9	10/30
FST05*	25.0	3/4	26.4	21.0	10/30
FST06*	32.0	1	33.1	26.4	10/20
FST07*	40.0	1 1/4	41.8	35.4	10/20
FST08*	50.0	1 1/2	47.5	40.4	10/20
FST09*	63.0	2	59.7	51.6	10/20

*Add coil length to complete part number, e.g. 10 metres of FST 16mm is FST0310.

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive

Approvals
EN45545-2 HL3 / NFF16-101 I1 F1 / LUL 1-085
BS6853 Class 1A
NFPA130 / ASTM E 162, ASTM E 662 and Bombardier SMP 800-C
Temperature range
Static temperature: -20°C to +90°C
Flexing temperature: -5°C to +105°C
Flexibility & fatigue life
Medium flexibility - medium fatigue life

Fire performance	
Limited fire hazard, flame retardant	
Low smoke, zero halogen	
IP Rating (with appropriate fittings)	
IP69	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM
IP67	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM
IP66	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM

UV Resistance
High

Type FLT – Low fire hazard, liquid tight conduit

Materials: Galvanised steel core - String packing with low fire hazard covering / Colour: Black

Black Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
FLT02*	12.0	5/16	14.2	10.0	10/30
FLT03*	16.0	3/8	17.8	12.5	10/30
FLT04*	20.0	1/2	21.1	15.9	10/30
FLT05*	25.0	3/4	26.4	21.0	10/30
FLT06*	32.0	1	33.1	26.4	10/20
FLT07*	40.0	1 1/4	41.8	35.4	10/20
FLT08*	50.0	1 1/2	47.5	40.4	10/20
FLT09*	63.0	2	59.7	51.6	10/20

*Add coil length to complete part number e.g. 10 metres of FLT 16mm in black is FLT0310.

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive

Approvals
EN45545-2 HL3 / NFF16-101 I1 F1 / LUL 1-085
BS6853 Class 1A
NFPA130 / ASTM E 162, ASTM E 662 and Bombardier SMP 800-C
Temperature range
Static temperature: -20°C to +90°C
Flexing temperature: -5°C to +105°C
Flexibility & fatigue life
Medium flexibility - medium fatigue life

Fire performance	
Limited fire hazard, flame retardant	
Low smoke, zero halogen	
IP Rating (with appropriate fittings)	
IP69	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM
IP67	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM
IP66	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM

UV Resistance
High

Flexible metallic conduit systems

Type FSH & FLH - Liquid tight system

Type FSH – High temperature, liquid tight conduit

Materials: Stainless steel AISI 316L core - String packing with co-polyester covering / Colour: Black

Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
FSH03*	16.0	3/8	17.8	12.5	10/30
FSH04*	20.0	1/2	21.1	15.9	10/30
FSH05*	25.0	3/4	26.4	21.0	10/30
FSH06*	32.0	1	33.1	26.7	10/20
FSH07*	40.0	1 1/4	41.8	35.4	10/20
FSH08*	50.0	1 1/2	47.9	40.4	10/20
FSH09*	63.0	2	59.7	51.6	10/20

*Add coil length to complete part number, e.g. 10 metres of FSH 16mm is FSH0310.

Approvals	Approvals	Fire performance		UV Resistance
KM90009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Flame Retardant		Very high (Black)
	CE Mark to the low voltage directive	**IP Rating (with appropriate fittings)**		High (Grey)
	Temperature range	**IP69**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Static temperature: -20°C to +105°C			
	Flexing temperature: -5°C to +105°C	**IP67**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Flexibility & fatigue life			
	Medium flexibility - medium fatigue life	**IP66**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	

Type FLH – High temperature, liquid tight conduit

Materials: Heavy galvanised steel core - String packing with co-polyester covering / Colour: Black or Blue

Black Part no.	Blue Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
FLH03*	FLLH03*	16.0	3/8	17.8	12.5	10/30
FLH04*	FLLH04*	20.0	1/2	21.1	15.9	10/30
FLH05*	FLLH05*	25.0	3/4	26.4	21.0	10/30
FLH06*	FLLH06*	32.0	1	33.1	26.7	10/30
FLH07*	FLLH07*	40.0	1 1/4	41.8	35.4	10/30
FLH08*		50.0	1 1/2	47.5	40.4	10/30
FLH09*		63.0	2	59.7	51.6	10/30

*Add coil length to complete part number, e.g. 10 metres of FLH 16mm in black is FLH0310.

Approvals	Approvals	Fire performance		UV Resistance
KM90009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Flame retardant (BSEN 61386)		High (Blue)
	CE Mark to the low voltage directive	**IP Rating (with appropriate fittings)**		Very high (Black)
	Temperature range	**IP69**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Static temperature: -50°C to +130°C			
	Flexing temperature: -45°C to +130°C	**IP67**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Flexibility & fatigue life			
	High flexibility - high fatigue life	**IP66**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	

Flexible metallic conduit systems

Type FUB / FUG (UL/CSA) & Type FLB / FLG - Liquid tight system

Type FUB / FUG (UL/CSA) – UL/CSA Listed, liquid tight conduit

Materials: Heavy galvanised steel core - Copper packing with PVC covering / Colour: Black or Grey

Black Part no.	Grey Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
FUB03*	FUG03*	16.0	3/8	17.8	12.5	10/30
FUB04*	FUG04*	20.0	1/2	21.1	15.9	10/30
FUB05*	FUG05*	25.0	3/4	26.4	21.0	10/30
FUB06*	FUG06*	32.0	1	33.1	26.7	10/20
FUB07*	FUG07*	40.0	1 1/4	41.8	35.4	10/20
FUB08*	FUG08*	50.0	1 1/2	47.7	40.4	10/20
FUB09*	FUG09*	63.0	2	60.0	51.6	10/20

*Add coil length to complete part number, e.g. 10 metres of FUB UL / CSA 16mm in black is FUG0310.

Approvals	Approvals	Fire performance		UV Resistance
	UL Listed - File No. E76358	Flame retardant / Oil & chemical resistance		Very high (Black)
	CSA Approved - File No. 048689	**IP Rating (with appropriate fittings)**		High (Grey)
	Temperature range	**IP69**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Static temperature: -20°C to +105°C	**IP67**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Flexing temperature: -5°C to +105°C			
	Flexibility & fatigue life	**IP66**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Medium flexibility - medium fatigue life			

*Application temperature limited by approval.

Type FLB / FLG – Liquid tight, PVC covered conduit

Materials: Galvanised steel core - String packing with PVC covering / Colour: Black or Grey

Black Part no.	Grey Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
FLB02*	FLG02*	12.0	5/16	14.2	10.0	10/30
FLB03*	FLG03*	16.0	3/8	17.8	12.5	10/30
FLB04*	FLG04*	20.0	1/2	21.1	15.9	10/30
FLB05*	FLG05*	25.0	3/4	26.4	21.0	10/30
FLB06*	FLG06*	32.0	1	33.1	26.7	10/20
FLB07*	FLG07*	40.0	1 1/4	41.8	35.4	10/20
FLB08*	FLG08*	50.0	1 1/2	47.5	40.4	10/20
FLB09*	FLG09*	63.0	2	59.7	51.6	10/20

*Add coil length to complete part number e.g. 10 metres of FLB 12mm in black is FLG0210.

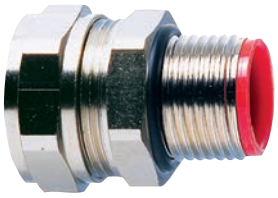
Approvals	Approvals	Fire performance		UV Resistance
	BSI Kitemark / KM-35161	Flame retardant		Very high (Black)
	CE Mark to the low voltage directive	**IP Rating (with appropriate fittings)**		High (Grey)
	Temperature range	**IP69**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Static temperature: -20°C to +105°C			
	Flexing temperature: -5°C to +105°C	**IP67**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Flexibility & fatigue life			
	Medium flexibility - medium fatigue life	**IP66**	Standard with XQM, XQMS, XQAS, XQA, XRM, XSM, XSA & XMM	
	Characteristics			
	Oil & chemical resistance			

Flexible metallic conduit systems

Type XQM & XRM 45° - Liquid tight fittings

Type XQM - Liquid tight for covered conduit

Materials: Nickel plated brass body, back nut & insert.
High temperature co-polyester seal, NBR face seal, nylon cable protection insert



Metric Part no.	Nominal conduit size (mm)	Metric thread size	NPT Part no.	NPT thread size	US conduit size
XQM0203	16.0	M16	–	–	5/16
XQM0303	16.0	M16	–	–	3/8
XQM0304	20.0	M20	XQA0304	1/2	3/8
XQM0404	20.0	M20	XQA0404	1/2	1/2
XQM0505	25.0	M25	XQA0505	3/4	3/4
XQM0606	32.0	M32	XQA0606	1	1
XQM0707	40.0	M40	XQA0707	1 1/4	1 1/4
XQM0808	50.0	M50	XQA0808	1 1/2	1 1/2
XQM0909	63.0	M63	XQA0909	2	2

Approvals
KM90009 KM35161 · CE LOW VOLTAGE DIRECTIVE · UL

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
UL514B file number E60625
Temperature range
Static temperature: -50°C to +150°C
Dynamic temperature: -45°C to +150°C

For use with:
All F Series conduits
Degree of mechanical protection
Very high

IP Rating
IP66
IP67
IP69

Type XRM 45° - 45° Elbow fitting - External male thread

Materials: Nickel plated brass body, back nut & insert.
High temperature co-polyester seal, NBR face seal, nylon cable protection insert

Metric Part no.	Nominal conduit size (mm)	Metric thread size	US conduit size
XRM0303	16.0	M16	3/8
XRM0304	20.0	M20	3/8
XRM0404	20.0	M20	1/2
XRM0505	25.0	M25	3/4
XRM0606	32.0	M32	1
XRM0707	40.0	M40	1 1/4
XRM0808	50.0	M50	1 1/2
XRM0909	63.0	M63	2

Approvals
KM90009 KM35161 · CE LOW VOLTAGE DIRECTIVE · UL

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
UL514B file number E60625
Temperature range
Static temperature: -50°C to +150°C
Dynamic temperature: -45°C to +150°C

For use with:
All F Series conduits
Degree of mechanical protection
Very high

IP Rating
IP66
IP67
IP69

Flexible metallic conduit systems

Type XSM 90° & XMM Swivel - Liquid tight fittings

Type XSM 90° – 90° Male elbow fitting

Materials: Nickel plated brass body, back nut & insert.
High temperature co-polyester seal, NBR face seal, nylon cable protection insert

Metric Part no.	Nominal conduit size (mm)	Metric thread size	NPT Part no.	NPT thread size	US conduit size
XSM0303	16.0	M16	–	–	3/8
XSM0304	20.0	M20	XSA0304	1/2	3/8
XSM0404	20.0	M20	XSA0404	1/2	1/2
XSM0505	25.0	M25	XSA0505	3/4	3/4
XSM0606	32.0	M32	XSA0606	1	1
XSM0707	40.0	M40	XSA0707	1 1/4	1 1/4
XSM0808	50.0	M50	XSA0808	1 1/2	1 1/2
XSM0909	63.0	M63	XSA0909	2	2

Approvals
KM50009 KM35161

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
UL514B file number E60625
Temperature range
Static temperature: -50°C to +150°C
Dynamic temperature: -45°C to +150°C

For use with:
All F Series conduits
Degree of mechanical protection
Very high

IP Rating
IP66
IP67
IP69

Type XMM – Straight swivel fitting - External male thread

Materials: Nickel plated brass, PVC sleeve - Nylon inserts

Metric Part no.	Nominal conduit size (mm)	Metric thread size	US conduit size
XMM0303	16.0	M16	3/8
XMM0404	20.0	M20	1/2
XMM0505	25.0	M25	3/4
XMM0606	32.0	M32	1
XMM0707	40.0	M40	1 1/4
XMM0808	50.0	M50	1 1/2
XMM0909	63.0	M63	2

Approvals

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
Temperature range
Static temperature: -20°C to +120°C
Dynamic temperature: -5°C to +120°C

For use with:
All F Series conduits
Degree of mechanical protection
Medium

IP Rating
IP66
IP67

Flexible metallic conduit systems

Type XEN - Conduit terminator

Type XEN – Conduit terminator

Materials: Nickel plated brass

Metric Part no.	Nominal conduit Size (mm)	US conduit size
XEN01	10.0	1/4
XEN02	12.0	5/16
XEN03	16.0	3/8
XEN04	20.0	1/2
XEN05	25.0	3/4
XEN06	32.0	1
XEN07	40.0	1 1/4
XEN08	50.0	1 1/2
XEN09	63.0	2

Approvals
CE LOW VOLTAGE DIRECTIVE

Approvals
CE Mark to the low voltage directive
Temperature range
Static temperature: -50°C to +150°C
Dynamic temperature: -45°C to +150°C

Degree of mechanical protection	IP Rating
High	IP40

Flexible metallic conduit systems

Type KEBT & KEBF - Ultra conduit liquid tight system

Type KEBT – Low fire hazard, liquid tight conduit

Materials: Galvanized steel core with low fire hazard covering / Colour: Black

Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
KEBT01*	10.0	1/4	10.3	7.0	10/30
KEBT02*	12.0	5/16	13.8	10.0	10/30
KEBT03*	16.0	3/8	17.1	12.9	10/30
KEBT04*	20.0	1/2	21.2	17.0	10/20
KEBT05*	25.0	3/4	25.7	21.1	10/30
KEBT06*	32.0	1	33.0	28.4	10/30
KEBT07*	40.0	1 1/4	41.1	36.4	10/20
KEBT08*	50.0	1 1/2	54.9	48.2	10/30
KEBT09*	63.0	2	64.5	57.5	10/20
KEBT10*	75.0	2 1/2	79.0	70.0	10/20

*Add coil length to complete part number, e.g. 10 metres of KEBT 16mm is KEBT0310.

Approvals
KM90009 KM35161 · CE LOW VOLTAGE DIRECTIVE · UNDERGROUND · NF · ENHANCED ELFH LOW FIRE HAZARD

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
EN45545-2 HL3 / NFF16-101 I1 F1 / LUL 1-085
BS6853 Class 1A
NFPA130 / ASTM E 162, ASTM E 662 and Bombardier SMP 800-C
Temperature range
Static temperature: -20°C to +90°C
Flexing temperature: -5°C to +105°C

Flexibility & fatigue life	
Medium flexibility - medium fatigue life	
IP Rating (with appropriate fittings*)	
IP65	Liquid tight with GQM fittings
IP54	Waterproof with GAM, GBM & GUN fittings
Characteristics	
High mechanical strength	
Fire performance	
Limited fire hazard, flame retardant	
Low smoke, zero halogen	

Type KEBF – PVC covered, liquid tight conduit

Materials: Galvanised steel core with PVC jacket / Colour: Black

Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
KEBF01*	10.0	1/4	10.3	7.0	10/30
KEBF02*	12.0	5/16	13.8	10.0	10/30
KEBF03*	16.0	3/8	17.1	12.9	10/30
KEBF04*	20.0	1/2	21.2	17.0	10/30/50
KEBF05*	25.0	3/4	25.7	21.1	10/30/50
KEBF06*	32.0	1	33.0	28.4	10/20
KEBF07*	40.0	1 1/4	41.1	36.4	10/20
KEBF08*	50.0	1 1/2	54.9	36.4	10/20
KEBF09*	63.0	2	64.5	48.2	10/20

*Add coil length to complete part number, e.g. 10 metres of KEBF 10mm is KEBF0110.

Approvals
KM90009 KM35161 · CE LOW VOLTAGE DIRECTIVE

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
Temperature range
Static temperature: -25°C to +70°C
Flexing temperature: -5°C to +90°C
Flexibility & fatigue life
Very high flexibility - high fatigue life

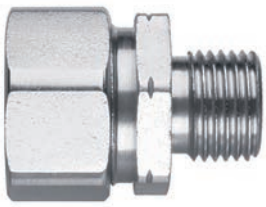
IP Rating (with appropriate fittings)	
IP65	Liquid tight with GQM fittings
IP54	Waterproof with GAM, GBM & GUN fittings
Characteristics	
High mechanical strength	
Fire performance	
Flame retardant	

Flexible metallic conduit systems

Type GQMS - Stainless steel fittings

Type GQMS – Liquid resistant, straight fitting for covered conduit

Materials: Stainless steel AISI 316L – Nylon seals



Part no.	Metric thread size	Ext. thread outside diameter (mm)
GQMS0303	M16	16.0
GQMS0304	M20	16.0
GQMS0404	M20	20.0
GQMS0505	M25	25.0
GQMS0606	M32	32.0
GQMS0707	M40	40.0
GQMS0808	M50	50.0

Approvals

KM59009
KM35161

LOW VOLTAGE DIRECTIVE

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive

IP Rating	Degree of mechanical protection
IP65	Liquid tight with KEBT and KEBF

Temperature range
Static temperature: -50°C to +150°C
Dynamic temperature: -45°C to +150°C

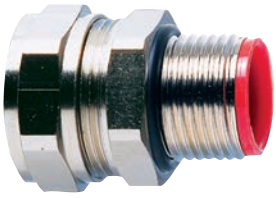
Degree of mechanical protection
Very high

Flexible metallic conduit systems

Type GQM - Nickel plated brass fittings

Type GQM – Liquid resistant straight fitting - External male thread for covered conduit

Materials: Nickel plated brass, co-polyester seals - Nylon insert



Part no.	Metric thread size	Ext. thread outside diameter (mm)
GQM0303	M16	16.0
GQM0404	M20	20.0
GQM0505	M25	25.0
GQM0606	M32	32.0
GQM0707	M40	40.0
GQM0808	M40	40.0

Approvals

KM59009
KM35161

LOW VOLTAGE DIRECTIVE

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive

IP Rating	Degree of mechanical protection
IP65	Liquid tight with KEBF & KEBT

Temperature range
Static temperature: -50°C to +150°C
Dynamic temperature: -45°C to +150°C

Degree of mechanical protection
Very high

Flexible metallic conduit systems

Type GAM & GBM - KE Ultra fittings

Type GAM – Fixed body, straight fitting - Fixed external male thread for covered conduit

Materials: Nickel plated zinc or Nickel plated brass

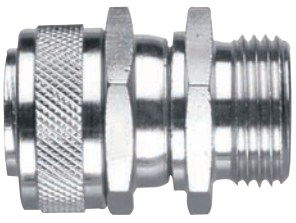
Part no.	Metric thread size	Ext. thread outside diameter (mm)
GAM0303*	M16	16.0
GAM0304*	M20	20.0
GAM0404**	M20	20.0
GAM0505**	M25	25.0
GAM0606**	M32	32.0
GAM0707*	M40	40.0
GAM0808*	M50	50.0
GAM0909*	M63	63.0
GAM1010*	M75	75.0

*Nickel plated brass body & Ferrule.
**Nickel plated cast zinc body with nickel plated brass ferrule.

Approvals	Approvals	Temperature range
KM90009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Static temperature: -65°C to +350°C
	CE Mark to the low voltage directive	Dynamic temperature: -45°C to +250°C
	IP Rating	**Degree of mechanical protection**
	IP54 Waterproof with KEBF and KEBT	Very high

Type GBM – Swivel body, straight fitting - Swivel external male thread for covered conduit

Materials: Nickel plated brass



Part no.	Metric thread size	Ext. thread outside diameter (mm)
GBM0303	M16	16.0
GBM0404	M20	20.0
GBM0505	M25	25.0
GBM0606	M32	32.0
GBM0707	M40	40.0
GBM0808	M50	50.0

Approvals	Approvals	Temperature range
KM90009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Static temperature: -65°C to +350°C
	CE Mark to the low voltage directive	Dynamic temperature: -45°C to +250°C
	IP Rating	**Degree of mechanical protection**
	IP54 Waterproof with KEBF and KEBT	Very high

Flexible metallic conduit systems

Type GUN - KE Ultra fittings

Type GUN – Liquid resistant space saver for covered conduit

Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)
GUN0101	10.0
GUN0202	12.0
GUN0303	16.0
GUN0404	20.0
GUN0505	25.0
GUN0606	32.0
GUN0707	40.0
GUN0808	50.0

Approvals
KM90009 KM35161 LOW VOLTAGE DIRECTIVE

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive

IP Rating	Degree of mechanical protection
IP40	With KEBF and KEBT

Temperature range
Static temperature: -65°C to +350°C
Dynamic temperature: -45°C to +250°C

Degree of mechanical protection
Very high

Flexible metallic conduit systems

Type KSU & KSU Small bore - Stainless steel system

Type KSU – Uncovered fexible conduit

Materials: Stainless steel AISI 316L

Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
KSU01* (AISI 304)	10.0	1/4	9.6	7.0	10/30
KSU02*	12.0	5/16	12.8	10.0	10/30
KSU03*	16.0	3/8	16.1	12.9	10/30
KSU04*	20.0	1/2	20.2	17.0	10/30
KSU05*	25.0	3/4	24.7	21.1	10/30
KSU06*	32.0	1	32.0	28.4	10/20
KSU07*	40.0	1 1/4	40.0	36.4	10/20

* Add coil length to complete part number, e.g. 10 metres of KSU 10mm is KSU0110.

Approvals
KM90009 KM35161
LOW VOLTAGE DIRECTIVE
INHERENT LOW FIRE HAZARD ILFH

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive
Temperature range
Static temperature: -65°C to +350°C
Flexing temperature: -45°C to +250°C
Flexibility & fatigue life
Very high flexibility - very high fatigue life

Fire performance	
Inherent low fire hazard	
Resistance to flame propagation	
IP Rating (with appropriate fittings)	
IP40	As standard with GFMS fittings
Characteristics	
Oil & chemical resistance	
Abrasion resistant	

Type KSU – Small bore - Uncovered fexible conduit

Materials: Stainless steel AISI 304

Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
KSU00320	10.0	1/4	5.1	3.3	20
KSU00520	12.0	5/16	7.0	5.1	20
KSU00810	16.0	3/8	10.1	8.0	10

Approvals
LOW VOLTAGE DIRECTIVE
INHERENT LOW FIRE HAZARD ILFH

Approvals
CE Mark to the low voltage directive
Temperature range
Static temperature: -65°C to +350°C
Flexing temperature: -45°C to +250°C
Flexibility & fatigue life
Very high flexibility - very high fatigue life

Fire performance
Inherent low fire hazard
Resistance to flame propagation
IP Rating (with appropriate fittings)
IP40
Characteristics
Oil & chemical resistance
Abrasion resistant

Flexible metallic conduit systems

Type KEU - Ultra conduit system

Type KEU – Uncovered galvanised steel conduit

Materials: Galvanised steel

Part no.	Nominal conduit size (mm)	US conduit size (in.)	Outside diameter (mm)	Inside diameter (mm)	Coil lengths (m)
KEU01*	10.0	1/4	9.0	6.8	10/30
KEU02*	12.0	5/16	13.0	10.3	10/30
KEU03*	16.0	3/8	16.0	13.0	10/30
KEU04*	20.0	1/2	20.5	16.9	10/30/50
KEU05*	25.0	3/4	25.0	21.4	10/30/50
KEU06*	32.0	1	32.0	28.1	10/20
KEU07*	40.0	1 1/4	42.5	37.7	10/20
KEU08*	50.0	1 1/2	53.0	48.4	10/20

*Add coil length to complete part number, e.g. 10 metres of KEU 10mm is KEU0110.

Approvals

KM90009
KM35161

LOW VOLTAGE DIRECTIVE

INHERENT ILFH LOW FIRE HAZARD

Approvals

BSI Kitemark / KM-35161

CE Mark to the low voltage directive

Temperature range

Static temperature: -50°C to +300°C

Flexing temperature: -45°C to +250°C

Flexibility & fatigue life

Very high flexibility - very high fatigue life

Fire performance

Inherent Low Fire Hazard resistance to flame propagation

IP Rating (with appropriate fittings)

IP40 Standard with GFM & GGM fittings

Characteristics

High mechanical strength

Flexible metallic conduit systems

Type GFMS - Stainless steel fittings

Type GFMS – Fixed body fitting for uncovered conduit

Materials: Stainless steel AISI 316L

Part no.	Metric thread size	Ext. thread outside diameter (mm)
GFMS0303	M16	16.0
GFMS0404	M20	20.0
GFMS0505	M25	25.0
GFMS0606	M32	32.0
GFMS0707	M40	40.0

Approvals
KM60009 KM35161

Approvals
BSI Kitemark / KM-35161
CE Mark to the low voltage directive

IP Rating	Degree of mechanical protection
IP40	As standard with KSU

Temperature range
Static temperature: -65°C to +350°C
Dynamic temperature: -45°C to +250°C

Flexible metallic conduit systems

Type GFM & GGM - Nickel plated brass fittings

Type GFM – Fixed body, straight fitting - Fixed external male thread for uncovered conduit

Materials: Nickel plated zinc or Nickel plated brass

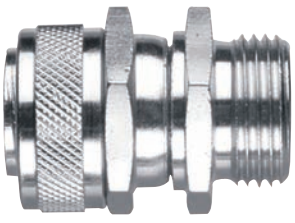
Part no.	Metric thread size	Ext. thread outside diameter (mm)
GFM0303*	M16	16.0
GFM0304**	M20	20.0
GFM0404**	M20	20.0
GFM0505**	M25	25.0
GFM0606**	M32	32.0
GFM0707*	M40	40.0
GFM0808*	M50	50.0

*Nickel plated brass body & ferrule.
**Nickel plated cast zinc body with nickel plated brass ferrule.

Approvals	Approvals	Temperature range
KM90009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Static temperature: -65°C to +350°C
	CE Mark to the low voltage directive	Dynamic temperature: -45°C to +250°C
	IP Rating	**Degree of mechanical protection**
	IP40 As standard with KEU & KSU	Very high

Type GGM – Swivel external thread - Straight fitting for covered conduit

Materials: Nickel plated brass



Part no.	Metric thread size	Ext. thread outside diameter (mm)
GGM0303	M16	16.0
GGM0404	M20	20.0
GGM0505	M25	25.0
GGM0606	M32	32.0
GGM0707	M40	40.0
GGM0808	M50	50.0

Approvals	Approvals	Temperature range
KM90009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Static temperature: -65°C to +300°C
	CE Mark to the low voltage directive	Dynamic temperature: -45°C to +250°C
	IP Rating	**Degree of mechanical protection**
	IP40 With KEU and KSU	Very high

Flexible metallic conduit systems

Type GYN - Nickel plated brass fittings

Type GYN – Smooth entry bush for uncovered conduit

Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)
GYN0101	10.0
GYN0202	12.0
GYN0303	16.0
GYN0404	20.0
GYN0505	25.0
GYN0606	32.0
GYN0707	40.0
GYN0808	50.0

Approvals	Approvals	Temperature range
KM60009 KM35161 LOW VOLTAGE DIRECTIVE	BSI Kitemark / KM-35161	Static temperature: -65°C to +300°C
	CE Mark to the low voltage directive	Dynamic temperature: -45°C to +250°C
	IP Rating	**Degree of mechanical protection**
	IP40 With KEU and KSU	Very high

Flexible metallic conduit systems
Accessories

Coupler – Female to female thread coupler

Materials: Nickel plated brass

Part no.	Metric thread size	Int. thread inside diameter (mm)
Stainless steel - Hex locknut		
EXN/M16/C	M16	14.4
EXN/M20/C	M20	18.4
EXN/M25/C	M25	23.4
EXN/M32/C	M32	30.4
EXN/M40/C	M40	38.4
EXN/M50/C	M50	48.4
EXN/M63/C	M63	61.4

Approvals	Approvals	Temperature range
	Baseefa 08 ATEX 0003X	Safe operating temperature range: -60°C to +200°C
	Ex de IIC Gb	
	Ex tb IIIC Db	

Hex locknut – For securing threaded fittings into knockouts and fixing holes

Materials: Stainless steel or nickel plated brass

Part no.	Metric thread size	Dimension across flats (mm)	Thickness (mm)
Stainless steel - Hex locknut			
LNSS/M16	M16 x 1.5	20.0	3.0
LNSS/M20	M20 x 1.5	24.0	3.5
LNSS/M25	M25 x 1.5	30.0	4.0
LNSS/M32	M32 x 1.5	36.0	5.0
LNSS/M40	M40 x 1.5	47.2	5.0
LNSS/M50	M50 x1.5	60.3	5.0
LNSS/M63	M63 x 1.5	69.8	6.0
Nickel plated brass - Hex locknut			
LNB/M16	M16 x 1.5	20.0	3.0
LNB/M20	M20 x 1.5	24.0	3.0
LNB/M25	M25 x 1.5	30.0	3.5
LNB/M32	M32 x 1.5	38.0	5.0
LNB/M40	M40 x 1.5	50.0	5.0
LNB/M50	M50 x1.5	60.0	5.0

Type GEN – Space saver & conduit terminator for covered conduit

Materials: Nickel plated brass

Part no.	Nominal conduit size (mm)
GEN01	10.0
GEN02	12.0
GEN03	16.0
GEN04	20.0
GEN05	25.0
GEN06	32.0
GEN07	40.0
GEN08	50.0

Approvals

Approvals	
	BSI Kitemark / KM-35161
	CE Mark to the low voltage directive
IP Rating	
IP44	With KEBF and KEBT
Temperature range	
	Static temperature: -65°C to +300°C
	Dynamic temperature: -45°C to +250°C
Degree of mechanical protection	
	High

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Order code classification

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Order code classification

Additional information
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ABB UK Ltd
CMG House
Station Road
Coleshill
Birmingham B46 1HT
Tel: +44 (0) 1675 468 217
Fax: +44 (0) 1675 468 280
E-Mail: sales@kopex.co.uk

new.abb.com

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