



Flexible conduits
Excellent mechanical
strength and flexibility
for use in demanding
environments



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Shureseal™ and Shureflex® Flexible conduits

Thomas & Betts ... The Complete Product Line

For a century, Thomas & Betts has been a recognised leader in electrical conduits & fittings. Industry standards such as Chase Nipples and Erickson Couplings were introduced by Thomas & Betts and are still popular in the industry. This leadership continues. Here's why.

The **Shureseal™ flexible metallic liquidtight conduits** provide an excellent protection for electrical cables against: aggressive media, pressure loads, moisture and liquid, chemicals and oil, dust and pollution, extreme temperatures.

All grades of Shureseal™ conduits are constructed using an interlocking, convoluted, heavy-duty galvanised steel core. Depending on the grade and size of the conduit, a packing material



*Excellent mechanical strength
and flexibility for use
in demanding environments*

is added to the convolutions of the core to improve performance. Finally, a smooth jacket is extruded over the steel core to give protection and improve flexing properties.

Ideal for applications which require resistance to bending strain vibration or similar forces.

The **Shureseal™ flexible non-metallic liquidtight conduits** offer an excellent protection for electrical cables combined with an outstanding flexibility, a strong resistance to chemicals and a good level of mechanical resistance. Their smooth inner surface ensures that cables and conductors can be fed through with ease.

Ideal for applications which require resistance to bending strain, vibration or similar forces, the range of Shureseal™ flexible, non-metallic liquidtight conduits is installable with the appropriate fittings available in the Shureseal™ range.

The **Shureflex® system of ultra-flexible metallic conduits** in galvanised steel offers an economic solution for the protection of

cables in industrial and commercial applications.

They have an excellent resistance to crushing, vibrations and bending, as well as high flexibility and pull off strength.

The Shureflex® conduits are also available in stainless steel upon request.

The **new range of Shureflex® Nylon conduit and fittings** provides all the benefits of a Halogen free, flexible watertight system of protection for electrical cables.

The Shureflex® Nylon conduits are made from Halogen free Polyamide 6 (PA6) and Polyamide 12 (PA12) and are recommended for the insulation and the mechanical protection of electrical cables, in accordance with EN60204 (Machine Safety). With its wide range of fittings and accessories, this system is ideally suitable for all types of applications in general wiring, industrial equipment, machine tools and machinery, production equipment, control equipment, robotics, automotive, transportation, railway.

Selection guide

Flexible conduits

	Conduit type	Features	Typical Applications	Flexible	High mechanical strength	Oil and chemical resistant
SHURESEAL™ FLEXIBLE METALLIC LIQUIDTIGHT CONDUITS						
	TBEF	Flexible, VDE approved, for heavy-duty use	Standard multi-purpose conduit	B	yes	
	TBDL	UL / CSA approved, silicone free for heavy-duty use, multi-purpose	Export-oriented mechanical and plant engineering (USA, Canada etc.)	B	yes	
	TBOR	Same as TBEF – plus high resistance to oil and chemicals	Mechanical engineering with high exposure to oil or chemicals	B	yes	yes
	TBEHC	Remains flexible at extreme temperatures	Same as TBEF but for higher temperatures	B	yes	yes
	TBZH	Halogen-free, low smoke and flexible	Where human life is at risk e.g. underground, railway stations	B	yes	
SHURESEAL™ FLEXIBLE NON-METALLIC LIQUIDTIGHT CONDUITS						
	TYPEA	Multi-layer construction, UL / CSA approved	Robotics, export version	A	yes	yes
	EFC	Highly flexible, crush-resistant, very good chemical resistance	OEM: flexing component wiring protection, fiber optic cable protection etc	A	yes	yes
	LTC	Smooth inner and outer surfaces, UL & CSA listed	Industrial applications: machinery, food processing equipment, etc	A	yes	yes
	LTC-GY	Smooth inner and outer surfaces, UL & CSA listed, grey	Commercial applications: indoor & outdoor lighting, etc	A	yes	yes
SHUREFLEX® FLEXIBLE METALLIC CONDUITS						
	UGS	Extremely flexible, even at industrial and commercial applications such as extremely high and low temperatures	Industrial and commercial applications such as lighting, security cameras and underfloor wiring	A	yes	
	PGS	Flexible, PVC-covered*	Industrial and commercial applications such as lighting, security cameras and underfloor wiring	B	yes	
SHUREFLEX® ULTRA-FLEXIBLE NYLON CONDUITS						
	LG	Halogen-free Polyamide 6 Very flexible and cost effective Easy installation (push-mount fitting)	General wiring, machine tools, industrial equipment and automotive	A	yes	yes
	SG	Halogen-free Polyamide 6 Very flexible and light Easy installation (push-mount fitting)	General wiring, machine tools, industrial equipment and automotive	A	yes	yes
	MG	Halogen-free Polyamide 6 Flexible with increased mechanical strength Easy installation (push-mount fitting)	Machine tools and machinery, industrial equipment, railway	A	yes	yes
	EG	Halogen-free Polyamide 12 Extremely flexible, even at negative temperatures and in very dry atmosphere Easy installation (push-mount fitting)	Demanding applications requiring repetitive bending and flexing movements: robotics, automation, production equipment	A	yes	yes

A = ultra flexible, B = flexible

* LFH (Limited Fire Hazard) covering is available upon request

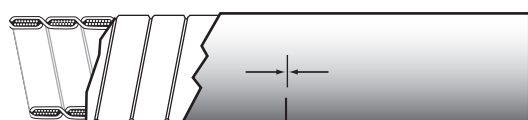
** Only applicable when correctly installed with Thomas & Betts fittings

*** Fittings with IP65 rating are available upon request for the PGS conduits

Zero halogen	Low acid	Limited fire hazard	Flame retardant	Temperature rating	IP rating**	Standard colour	Material Covering	Material Core	UL file Nr	CSA file Nr	Page
			yes	-25 to +105°C	IP67	black	PVC	galvanised steel			266
			yes	-25 to +105°C	IP67	black	PVC	galvanised steel	E125517	LL91693	267
			yes	-25 to +105°C	IP67	black	PVC	galvanised steel			268
			yes	-50 to +130°C	IP67	black	Polyester	galvanised steel			269
yes	yes	yes	yes	-25 to +90°C	IP67	black	Olefin	galvanised steel			270
				-20 to +60°C	IP66	orange		2 layers of PVC	E95745	232580	271
				-18 to +60°C	IP65	black		reinforced PVC	E96548	LL067241	272
				-18 to +105°C	IP65	black		PVC	E95745	LL80349	273
				-18 to +80°C	IP65	grey		PVC	E95745	LL80349	274
yes	yes	yes	yes	-50 to +300°C	IP40	metallic		galvanised steel			275
	yes	*	yes	-25 to +70°C	IP54***	black	PVC	galvanised steel			276
yes	yes	yes	yes	-40 to +105°C	IP66/IP69K	black		PA6	E96548		277
yes	yes	yes	yes	-40 to +105°C	IP66/IP69K	black		PA6	E96548		278
yes	yes	yes	yes	-40 to +105°C	IP66/IP69K	black		PA6	E96548		279
yes	yes			-50 to +90°C	IP66/IP69K	black		PA12			280

Type TBEF - universal

Flexible metallic liquidtight conduits



Length marking



1/4" - 1 1/4"

1 1/2" - 4"

- TBEF (now integrating the TBHT grade) conduit with heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Universal conduit for all liquidtight applications requiring good mechanical strength and flexibility: machinery, conveyors, etc.
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid and oil resistant, self-extinguishing PVC jacket
- High mechanical stability
- Tested and certified in accordance with DIN VDE 0605:1982-04 (File Nr: 24058-5410-0050 / 32CRB F41 / LR, Document Nr.: 131354)
- Marked lengths (every 1 m) for quick and easy measuring and cutting

Technical Information

Outer jacket	PVC, self-extinguishing within 30 seconds
Core	Galvanised steel
Packing	Cotton (up to 1 1/4")
Colour	Black or grey**
Temperature range	Static: -25°C to +105°C Flexing: -5°C to +105°C
Voltage breakdown (flash test)	> 2 kV
Insulation resistance	> 100 MOhm
IP rating	IP67, when correctly installed with Shureseal™ liquidtight fittings

** (Grey available upon request. Suffix = G, e.g. TBEF0250-50G)

Product Ref.	Nominal size	Metric size	Length	Internal diameter	External diameter	Min. bending radius	Mechanical values		Weight	Type of packaging
	[inch]	[mm]	[m]	[mm]	[mm]	[mm]	min. tensile strength [N]	min. compression strength [N]	[kg/100 m]	
TBEF0250-50*	1/4	10	50	6.2	11.4	45	500	1250	20.0	A
TBEF0312-50*	5/16	12	50	10.0	14.4	50	500	1250	22.2	A
TBEF0375-10	3/8	16	10	12.5	17.8	50	1000	1250	41.9	A
TBEF0375-75	3/8	16	75	12.5	17.8	50	1000	1250	41.9	B
TBEF0500-10	1/2	20	10	16.0	21.1	75	1000	1250	48.1	A
TBEF0500-60	1/2	20	60	16.0	21.1	75	1000	1250	48.1	B
TBEF0750-10	3/4	25	10	21.0	26.4	90	1000	1250	68.9	A
TBEF0750-50	3/4	25	50	21.0	26.4	90	1000	1250	68.9	C
TBEF1000-30	1	32	30	26.0	33.1	110	1000	1250	97.5	C
TBEF1250-30	1 1/4	40	30	34.8	41.8	130	1000	1250	123.3	C
TBEF1500-15*	1 1/2	50	15	40.4	47.7	190	2500	1250	144.8	C
TBEF2000-15*	2	63	15	51.6	60.0	250	2500	1250	161.0	C
TBEF2500-15*	2 1/2	75	15	63.3	72.6	480	2500	1250	298.0	C
TBEF3000-7*	3	90	7	78.4	88.4	760	2500	1250	327.8	C
TBEF4000-7*	4	115	7	102.1	113.8	860	2500	1250	394.4	C

* Not VDE approved

Packaging sizes: A = box 370 x 370 x 180 mm, B = box 500 x 500 x 275 mm, C = reel 800 mm ø

See page 281 for explanations on min. bending radius and temperature ranges

For Shureseal™ liquidtight fittings see pages 290 to 301

Type TBDL - dual listed UL & CSA Flexible metallic liquidtight conduits

- Type TBDL with UL / CSA approval, heavy duty double interlocked / single interlocked galvanised steel core
- Export and North-America oriented applications: multi-national projects, power plant, ...
- Copper wire packing for improved grounding (up to 1 1/4")
- High performance, acid- and oil-resistant PVC jacket, self-extinguishing in accordance with UL360
- Extremely high mechanical stability
- Marked lengths (every 1 m) for quick and easy measuring and cutting
- Silicone free



Technical Information

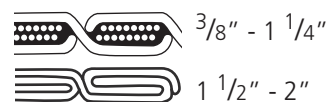
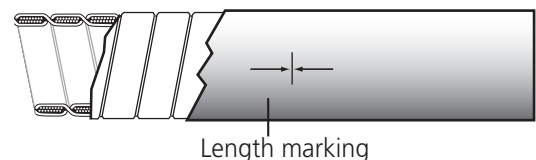
Outer jacket	PVC, self-extinguishing in 60 seconds
Core	Galvanised steel
Packing	Flat copper conductor (up to 1 1/4")
Colour	Black
Temperature range	Static: -25°C to +105°C (+120°C intermittent) Flexing: -5°C to +105°C UL rating: -10°C to +60°C CSA rating: -10°C to +75°C
IP rating	IP67, when correctly installed with Shureseal™ liquidtight fittings



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Product Ref.	Nominal size [inch]	Metric size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Mechanical values		Weight [kg/100 m]	Type of packaging
							min. tensile strength [N]	min. compression strength [N]		
TBDL0375-75	3/8	16	75	12.5	17.8	50	1000	4000	39.4	B
TBDL0500-60	1/2	20	60	16.0	21.1	80	1000	4000	48.5	B
TBDL0750-50	3/4	25	50	21.0	26.4	105	1000	1250	66.3	C
TBDL1000-30	1	32	30	26.0	33.1	165	1000	4000	112.0	C
TBDL1250-30	1 1/4	40	30	34.8	41.8	200	1000	1250	160.0	C
TBDL1500-15	1 1/2	50	15	40.4	47.7	280	2500	4000	193.5	C
TBDL2000-15	2	63	15	51.6	60.0	355	2500	1250	253.0	C

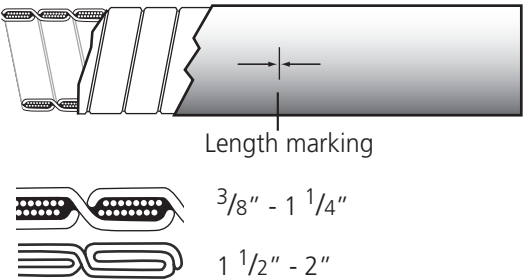
Packaging sizes: B = box 500 x 500 x 275 mm, C = reel 800 mm ø

See page 281 for explanations on min. bending radius and temperature ranges

Other sizes available upon request - please contact your Sales Office

For Shureseal™ liquidtight fittings see pages 290 to 301

Type TBOR - oil resistant
Flexible metallic liquidtight conduits



- Type TBOR, with heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Applications in greasy environments: machine tools, assembly machines, hydraulic machinery
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant PVC outer jacket, self-extinguishing within 30 seconds
- High mechanical stability in accordance with DIN 49 012
- Marked lengths (every 1m) for quick and easy measuring and cutting

Technical Information

Outer jacket	PVC, self-extinguishing within 30 seconds
Core	Galvanised steel
Packing	Cotton (up to 1 1/4")
Colour	Black
Temperature range	Static: -25°C to +105°C Flexing: -5°C to +105°C
Voltage breakdown (flash test)	> 2 kV
Insulation resistance	> 100 MOhm
IP rating	IP67, when correctly installed with Shureseal™ liquidtight fittings

Product Ref.	Nominal size	Metric size	Length	Internal diameter	External diameter	Min. bending radius	Mechanical values		Weight	Type of packaging
	[inch]	[mm]	[m]	[mm]	[mm]	[mm]	min. tensile strength [N]	min. compression strength [N]	[kg/100 m]	
TBOR0375-75	3/8	16	75	12.5	17.8	50	1000	1250	41.9	B
TBOR0500-60	1/2	20	60	16.0	21.1	75	1000	1250	48.1	B
TBOR0750-50	3/4	25	50	21.0	26.4	90	1000	1250	68.9	C
TBOR1000-30	1	32	30	26.0	33.1	110	1000	1250	97.5	C
TBOR1250-30	1 1/4	40	30	34.8	41.8	130	1000	1250	123.3	C
TBOR1500-15	1 1/2	50	15	40.4	47.7	190	2500	1250	144.8	C
TBOR2000-15	2	63	15	51.6	60.0	250	2500	1250	161.0	C

Packaging sizes: B = box 500 x 500 x 275 mm, C = reel 800 mm ø
See page 281 for explanations on min. bending radius and temperature ranges
Other sizes available upon request - please contact your Sales Office
For Shureseal™ liquidtight fittings see pages 290 to 301

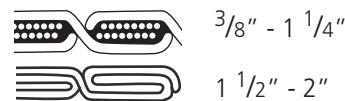
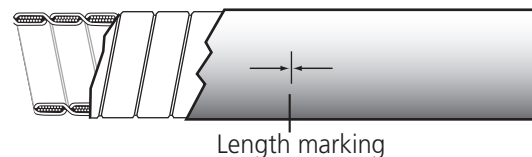
Type TBEHC - extreme heat/cold Flexible metallic liquidtight conduits

- Applications at extreme temperatures: refrigeration, transportation, industrial HVAC, heavy industries
- Very high tolerance to extreme changes in temperature
- Heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant Polyester jacket, self-extinguishing according to UL 94 V-2
- High mechanical stability in accordance with DIN 49 012
- Marked lengths (every 1m) for quick and easy measuring and cutting



Technical Information

Outer jacket	Polyester, self-extinguishing within 30 seconds
Core	Galvanised steel
Packing	Cotton (up to 1 1/4")
Colour	Black
Temperature range	Static: -50°C to +130°C (+150°C intermittent) Flexing: -5°C to +130°C
Voltage breakdown (flash test)	> 2 kV
IP rating	IP67, when correctly installed with Shureseal™ liquidtight fittings



Product Ref.	Nominal size [inch]	Metric size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Mechanical values min. tensile strength [N]	min. compression strength [N]	Weight [kg/100 m]	Type of packaging
TBEHC0375-30	3/8	16	30	12.5	17.8	50	1000	1250	40.7	B
TBEHC0500-30	1/2	20	30	16.0	21.1	75	1000	1250	45.0	B
TBEHC0750-30	3/4	25	30	21.0	26.4	90	1000	1250	64.5	C
TBEHC1000-30	1	32	30	26.0	33.1	110	1000	1250	90.7	C
TBEHC1250-30	1 1/4	40	30	34.8	41.8	130	1000	1250	112.6	C
TBEHC1500-15	1 1/2	50	15	40.4	47.7	190	2500	1250	134.5	C
TBEHC2000-15	2	63	15	51.6	60.0	250	2500	1250	148.7	C

Packaging sizes: B= box 500 x 500 x 275 mm, C= reel 800 mm ø

See page 281 for explanations on min. bending radius and temperature ranges

Other sizes available upon request - please contact your Sales Office

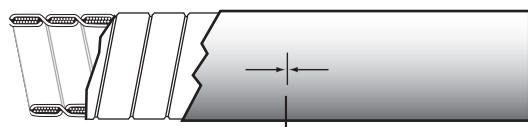
For Shureseal™ liquidtight fittings see pages 290 to 301

Special fittings (HT series) rated at 150°C are now available for high temperature applications - please contact your Sales Office for product availability.

TBEHC conduits with 316 grade stainless steel core (TBEHCSS series) can be available upon request - please contact your Sales Office for product availability and Minimum Order Quantities.

Type TBZH - zero halogen

Flexible metallic liquidtight conduits



Length marking



5/16" - 1 1/4"

1 1/2" - 2"

- Halogen free and low smoke outer jacket
- Ideal for applications where human lives can be a concern: public transportation, metro, train,...
- Heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant Olefin outer jacket, self-extinguishing within 30 seconds
- For use in safety areas (tunnels, public areas and transportation equipment)
- Marked lengths (every 1m) for quick and easy measuring and cutting
- NFF16-101 / NFF16-102 tested:
I index = I3 (oxygen index = 40.7), F index = F1

Technical Information

Outer jacket	Olefin, self-extinguishing within 30 seconds
Core	Galvanised steel
Packing	Cotton (up to 1 1/4")
Colour	Black
Temperature range	Static: -25°C to +90°C Flexing: -5°C to +90°C
Voltage breakdown (flash test)	> 2 kV
Insulation resistance	> 100 MOhm
IP rating	IP67, when correctly installed with Shureseal™ liquidtight fittings

Product Ref.	Nominal size	Metric size	Length	Internal diameter	External diameter	Min. bending radius	Mechanical values		Weight	Type of packaging
	[inch]	[mm]	[m]	[mm]	[mm]	[mm]	min. tensile strength	min. compression strength	[kg/100 m]	
TBZH0375-75	3/8	16	75	12.5	17.8	60	1000	1250	41.9	B
TBZH0500-60	1/2	20	60	16.0	21.1	90	1000	1250	48.1	B
TBZH0750-50	3/4	25	50	21.0	26.4	110	1000	1250	68.9	C
TBZH1000-30	1	32	30	26.0	33.1	130	1000	1250	97.5	C
TBZH1250-30	1 1/4	40	30	34.8	41.8	160	1000	1250	123.3	C
TBZH1500-15	1 1/2	50	15	40.4	47.7	230	2500	1250	144.8	C
TBZH2000-15	2	63	15	51.6	60.0	300	2500	1250	161.0	C

Packaging sizes: B= box 500 x 500 x 275 mm, C = reel 800 mm ø

For Shureseal™ liquidtight fittings see pages 290 to 301

See page 281 for explanations on min. bending radius and temperature ranges

Type TYPEA - smooth outer surface

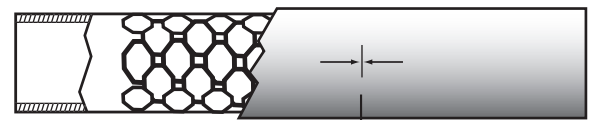
Flexible non-metallic liquidtight conduits

- UL and CSA approved
- Double layer construction offers a high level of mechanical stability for plastic tubing
- The Nylon lining between the 2 layers ensures a high level of flexibility
- High performance, durable acid- and oil resistant PVC outer jacket
- Perfectly designed for fittings which have to be safe, secure and electrically insulated
- Marked in lengths of 1 foot / 30.48 cm for quick and easy measuring and cutting
- High retention assured when used in association with T&B special fittings (Product Ref. 37XX and 63XX)
(see pages 302 and 303)



Technical Information

Material	2 layers of PVC with a woven Nylon fabric in between
Colour	Orange
Temperature range	-20°C to +60°C
IP rating	IP66, when correctly installed with Shureseal™ liquidtight fittings



Length marking

Product Ref.	Nominal size [inch]	Metric size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Weight [kg/100 m]
TYPEA38-250	$\frac{3}{8}$	16	76.2	12.32	19.63	63.5	23.3
TYPEA50-200	$\frac{1}{2}$	20	61.0	15.75	23.62	76.2	33.3
TYPEA75-175	$\frac{3}{4}$	25	53.3	20.70	29.72	101.6	46.7
TYPEA100-100	1	32	30.5	26.16	36.58	152.4	63.3
TYPEA125-100	1 $\frac{1}{4}$	40	30.5	34.80	46.36	177.8	93.3
TYPEA150-50	1 $\frac{1}{2}$	50	15.2	40.26	52.83	203.2	120.0
TYPEA200-50	2	63	15.2	52.71	65.79	228.6	180.0

For Shureseal™ liquidtight fittings for non-metallic conduits see pages 302 and 303
See page 281 for explanations on min. bending radius and temperature ranges

Type EFC - with strengthened inner coil

Flexible non-metallic liquidtight conduits



- UL Type B liquidtight flexible non-metallic conduit, OEM grade
- Highly flexible, liquidtight plastic tubing with strengthened inner coil
- UV-resistant and weatherproof
- High chemical resistance
- UL recognised under File No. E 96548
- CSA approved File No. LL 067241
- Crush-resistant due to stiffening effects of strengthened inner coil
- The ultra-smooth inner surface ensures that cables and conductors can be fed through very easily
- Can be used with plastic or metallic T&B “Bullet” fittings (see pages 304 to 308)



Technical Information

Material	PVC
Colour	Black or orange* or blue*
Temperature range	-18°C to +75°C (CSA) -18°C to +60°C (UL)
IP rating	IP65, when correctly installed with Shureseal™ liquidtight fittings

Product Ref.	Nominal size [inch]	Metric size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Weight [kg/100 m]	Type of packaging
EFC025	1/4	10	30.5	10.0	14.6	20	7.3	reel
EFC038	3/8	16	30.5	12.3	18.0	25	10.7	reel
EFC050	1/2	20	30.5	15.8	21.3	30	12.4	reel
EFC075	3/4	25	30.5	20.8	26.7	40	15.3	reel
EFC100	1	32	30.5	26.4	33.4	50	23.8	reel
EFC125	1 1/4	40	30.5	35.1	42.2	60	31.6	reel
EFC150	1 1/2	50	15.2	40.0	48.3	70	43.8	reel
EFC200	2	63	15.2	51.3	60.3	85	59.5	reel

For Shureseal™ “Bullet” fittings see pages 304 to 308

* For other colours add colour suffix to Product Reference. (e.g. EFC025-1 for orange conduit)
Standard colour = black, 1 = orange, 2 = blue



See page 281 for explanations on min. bending radius and temperature ranges

Type LTC - smooth outer surface

Flexible non-metallic liquidtight conduits

- UL Type B liquidtight flexible non-metallic conduit, industrial grade
- UL listed (E95745), CSA approved (LL80349)
- Highly flexible, with smooth outer jacket
- UV-resistant and weatherproof
- High chemical resistance
- The smooth inner surface ensures that cables and conductors can be fed through very easily
- Marked lengths (every 1 foot = 30.5 cm) for quick and easy measuring and cutting
- Can be used with plastic or metallic Shureseal™ "Bullet" fittings (see pages 304 to 308)
- Recommended industrial applications include: food processing equipment, extensions from wireways, sensor and microswitch control consoles



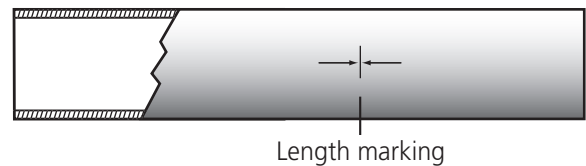
LL80349



E95745

Technical Information

Material	PVC
Colour	Black or blue* or orange*
Temperature range	-18°C to +105°C
	CSA rating: -18°C to +75°C
	UL rating: -18°C to +105°C (dry)
	-18°C to +70°C (oil)
	-18°C to +60°C (wet)
Voltage rating	600V
Flammability rating	UL1660
UL specifications	Oil resistant: yes
	Outdoor applications: yes (black version only)
	Direct burial: yes
IP rating	IP65, when correctly installed with Shureseal™ plastic or metallic "Bullet" fittings



Product Ref.	Nominal size [inch]	Metric size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Weight [kg/100 m]
LTC038	$\frac{3}{8}$	16	30.5	12.3	18.0	19.0
LTC050	$\frac{1}{2}$	20	30.5	15.8	21.3	22.0
LTC075	$\frac{3}{4}$	25	30.5	20.8	26.7	27.2
LTC100-TB	1	32	30.5	26.4	33.4	42.3
LTC125-TB	1 $\frac{1}{4}$	40	30.5	35.1	42.2	56.1
LTC150-TB	1 $\frac{1}{2}$	50	15.2	40.0	48.3	77.8
LTC200	2	63	15.2	51.3	60.3	105.7

Suitable for use in hazardous location where general purpose equipment is specifically permitted by the NEC Class I Div. 2, Class II, Div. 1 & 2 Class III, Div. 1 & 2, NEC 501-4(b) 502-4(a)(b) 503-3(a)(b).

Other lengths can be available - please contact your Sales Office for availability
For Shureseal™ "Bullet" fittings, see pages 304 to 308

* For other colours add colour suffix to Product Reference. (e.g. LTC050-1 for orange conduit)
Standard colour = black, 1 = orange, 2 = blue



Type LTC-GY - smooth outer surface

Flexible non-metallic liquidtight conduits



LL80349



E95745



Length marking

- UL Type B liquidtight flexible non-metallic conduit, commercial grade
- UL listed (E95745), CSA approved (LL80349)
- Highly flexible, with smooth outer jacket
- UV-resistant and weatherproof
- High chemical resistance
- The smooth inner surface ensures that cables and conductors can be fed through very easily
- Can be used with plastic or metallic Shureseal™ “Bullet” fittings (see pages 304 to 308)
- Recommended for commercial applications

Technical Information

Material	PVC
Colour	Grey
Temperature range	-18°C to +80°C
	UL rating: -18°C to +80°C (dry) -18°C to +70°C (oil) -18°C to +60°C (wet)
Voltage rating	600V
UL specifications	Oil resistant: yes Outdoor applications: yes Direct burial: yes
IP rating	IP65, when correctly installed with Shureseal™ plastic or metallic “Bullet” fittings

Product Ref.	Nominal size [inch]	Metric size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Weight [kg/100 m]
LTC038GY	3/8	16	30.5	12.3	18.0	19.0
LTC050GY	1/2	20	30.5	15.8	21.3	22.0
LTC075GY	3/4	25	30.5	20.8	26.7	27.2
LTC100GY	1	32	30.5	26.4	33.4	42.3
LTC125GY	1 1/4	40	30.5	35.1	42.2	56.1
LTC150GY	1 1/2	50	15.2	40.0	48.3	77.8
LTC200GY	2	63	15.2	51.3	60.3	105.7

Other lengths can be available – please contact your Sales Office for availability
For Shureseal™ “Bullet” fittings, see pages 304 to 308

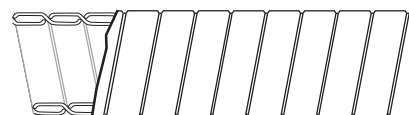
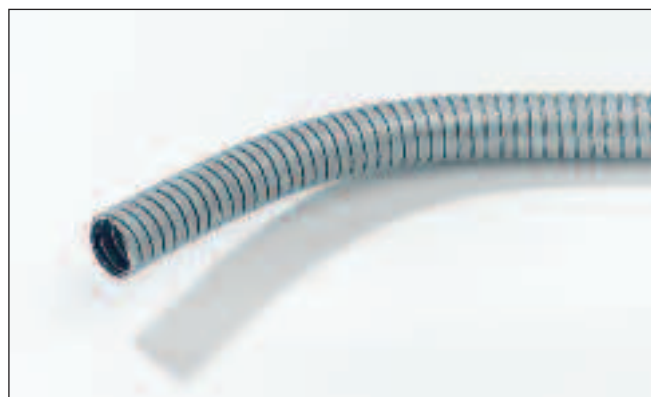
Type UGS - uncovered version

Ultra-flexible galvanised steel conduits

- Highly crush-resistant with an excellent pull off strength
- An economic solution for the protection of cables in industrial and commercial applications where there is flexing, bending or vibration
- Stainless steel grade 316 conduits and fittings are available for specialised applications. Please contact your Sales Office for any specific requirements
- Wide choice of male fittings (fixed or swivel) with PG or metric threads, as well as a space saver version
- Typical applications include amongst others: lighting, security cameras, underfloor wiring, transport and machine-tools

Technical Information

Outer jacket	None
Core	Continuous spiral in galvanised steel
Colour	Metallic
Temperature range	-50°C to +300°C
IP rating	IP40, when correctly installed with Shureflex® fittings



Product Ref.	Nominal size [mm]	Length [m]	Min. inner diameter [mm]	Max. outer diameter [mm]	Min. bending radius [mm]	Weight [kg/100 m]	Type of packaging
UGS1010	10	10	7.0	9.6	20	8.4	box
UGS1030	10	30	7.0	9.6	20	8.4	box
UGS1210	12	10	10.0	12.8	20	12.9	box
UGS1230	12	30	10.0	12.8	20	12.9	box
UGS1610	16	10	12.9	16.1	24	15.6	box
UGS1630	16	30	12.9	16.1	24	15.6	box
UGS2010	20	10	17.0	20.2	32	21.7	box
UGS2030	20	30	17.0	20.2	32	21.7	box
UGS2510	25	10	21.1	24.7	32	27.0	box
UGS2530	25	30	21.1	24.7	32	27.0	box
UGS3210	32	10	28.4	32.0	32	36.0	box
UGS3220	32	20	28.4	32.0	32	36.0	box
UGS4010	40	10	36.4	40.1	44	45.5	box
UGS4020	40	20	36.4	40.1	44	45.5	box
UGS5010	50	10	48.2	53.2	95	98.5	box
UGS5020	50	20	48.2	53.2	95	98.5	box

For T&B Shureflex® fittings see pages 313 and 314

For stainless steel grade 316 conduits please contact your Sales Office

See page 281 for explanations on min. bending radius and temperature ranges

Type PGS - covered version

Ultra-flexible galvanised steel conduits



- Highly crush-resistant with an excellent pull off strength
- Improved IP rating (IP54), compared to the uncovered conduits (special fittings with IP65 rating are also available upon request)
- An economic solution for the protection of cables in industrial and commercial applications where there is flexing, bending or vibration
- Wide choice of male fittings (fixed or swivel) and female fittings (fixed), both with PG or metric threads, as well as a space saver version
- Typical applications include amongst others: lighting, security cameras, underfloor wiring, transport and machine-tools

Technical Information

Outer jacket	Low acid PVC*
Core	Continuous spiral in galvanised steel
Colour	Black
Temperature range	-25°C to +70°C
IP rating	IP54, (or IP65 **), when correctly installed with Shureflex® fittings

* Limited Fire Hazard covering available upon request

** With special fitting, upon request

Product Ref.	Nominal size [mm]	Length [m]	Min. inner diameter [mm]	Max. outer diameter [mm]	Min. bending radius [mm]	Weight [kg/100 m]	Type of packaging
PGS1010	10	10	7.0	10.3	30	12.5	box*
PGS1030	10	30	7.0	10.3	30	12.5	box*
PGS1210	12	10	10.0	13.8	30	19.8	box*
PGS1230	12	30	10.0	13.8	30	19.8	box*
PGS1610	16	10	12.9	17.1	35	23.1	box*
PGS1630	16	30	12.9	17.1	35	23.1	box*
PGS2010	20	10	17.0	21.2	40	31.4	box*
PGS2030	20	30	17.0	21.2	40	31.4	box*
PGS2510	25	10	21.1	25.7	50	38.5	box*
PGS2530	25	30	21.1	25.7	50	38.5	box*
PGS3210	32	10	28.4	33.0	60	51.7	box*
PGS3220	32	20	28.4	33.0	60	51.7	box*
PGS4010	40	10	36.4	41.1	80	64.4	box*
PGS4020	40	20	36.4	41.1	80	64.4	box*
PGS5010	50	10	48.2	54.9	180	116.0	box*
PGS5020	50	20	48.2	54.9	180	116.0	box*

* Packed in a cardboard box which contains a reel

For T&B Shureflex® fittings see pages 315 and 316

See page 281 for explanations on min. bending radius and temperature ranges

Type LG - Light grade (PA6)

Ultra-flexible nylon conduits

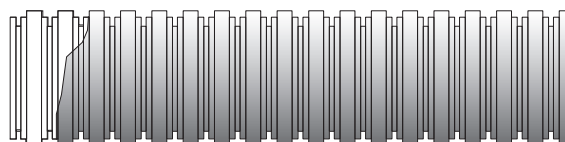
- Specially modified Polyamide 6
- Light grade: cost effective version
- Resistant to fuel, mineral oils, greases and diluted bases
- To be used with the Shureflex® Nylon Fittings to provide a water-tight system (rated IP66) without the need for any additional accessory
- For the insulation and the mechanical protection of electrical cables in industrial applications, in accordance with EN60204 (Machine Safety)
- Typical applications include: general wiring, machine tools, industrial equipment, control equipment and automotive
- For slit version please contact your sales office for product availability



E96548

Technical Information

Material	Polyamide 6
Colour	Black
Temperature range	-40°C to +105°C (intermittent: to +150°C)
Flammability rating	UL 94 HB
IP rating	IP66, with Shureflex® Nylon fittings IP69K, with Shureflex® Nylon fittings and additional Shureflex® washer and O-ring
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant



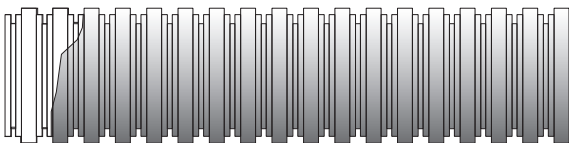
Product Ref.	Nominal size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Type of packaging
NY-LG07-BK50	7	50	6.3	10.0	15	reel
NY-LG10-BK50	10	50	9.7	13.0	20	reel
NY-LG12-BK50	12	50	12.2	15.8	30	reel
NY-LG17-BK50	17	50	16.8	21.2	40	reel
NY-LG23-BK50	23	50	22.6	28.5	55	reel
NY-LG29-BK50	29	50	28.3	34.5	65	reel
NY-LG36-BK30	36	30	36.3	42.5	80	reel
NY-LG48-BK30	48	30	47.4	54.5	95	reel

For Shureflex® Nylon Fittings & Accessories: see pages 317 to 325

See page 281 for explanations on min. bending radius and temperature ranges

Type SG - Standard grade (PA6)

Ultra-flexible nylon conduits



- High performance Polyamide 6
- Standard grade: very flexible and light
- Resistant to fuel, mineral oils, greases and diluted bases
- To be used with the Shureflex® Nylon Fittings to provide a water-tight system (rated IP66) without the need for any additional accessory
- For the insulation and the mechanical protection of electrical cables in industrial applications, in accordance with EN60204 (Machine Safety)
- Typical applications include: general wiring, machine tools, industrial equipment, control equipment and automotive

Technical Information

Material	Polyamide 6
Colour	Black
Temperature range	-40°C to +105°C (intermittent: to +150°C)
Flammability rating	UL 94 V-2 (produced from UL 94 V-0 raw material)
IP rating	IP66, with Shureflex® Nylon fittings IP69K, with Shureflex® Nylon fittings and additional Shureflex® washer and O-ring
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant

Product Ref.	Nominal size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Type of packaging
NY-SG07-BK50	7	50	6.3	10.0	15	reel
NY-SG10-BK50	10	50	9.7	13.0	20	reel
NY-SG12-BK50	12	50	12.2	15.8	30	reel
NY-SG17-BK50	17	50	16.8	21.2	40	reel
NY-SG23-BK50	23	50	22.6	28.5	55	reel
NY-SG29-BK50	29	50	28.3	34.5	65	reel
NY-SG36-BK30	36	30	36.3	42.5	80	reel
NY-SG48-BK30	48	30	47.4	54.5	95	reel

For Shureflex® Nylon Fittings & Accessories: see pages 317 to 325
See page 281 for explanations on min. bending radius and temperature ranges

Type MG - Medium grade (PA6)

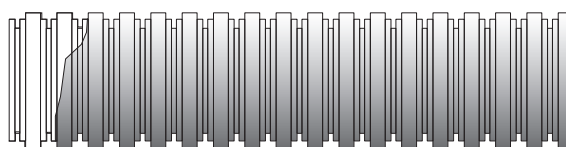
Ultra-flexible nylon conduits

- High performance Polyamide 6
- Medium grade: flexible with increased mechanical strength (crush and impact resistance)
- Resistant to fuel, mineral oils, greases and diluted bases
- To be used with the Shureflex® Nylon Fittings to provide a water-tight system (rated IP66) without the need for any additional accessory
- For the insulation and the mechanical protection of electrical cables in industrial applications, in accordance with EN60204 (Machine Safety)
- Typical applications include: machine tools and machinery, industrial equipment, production equipment and railway industry



Technical Information

Material	Polyamide 6
Colour	Black
Temperature range	-40°C to +105°C (intermittent: to +150°C)
Flammability rating	UL 94 V-2 (produced from UL 94 V-0 raw material)
IP rating	IP66, with Shureflex® Nylon fittings IP69K, with Shureflex® Nylon fittings and additional Shureflex® washer and O-ring
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant



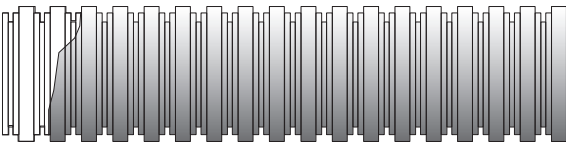
Product Ref.	Nominal size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Type of packaging
NY-MG07-BK50	7	50	6.2	10.0	20	reel
NY-MG10-BK50	10	50	9.6	13.0	25	reel
NY-MG12-BK50	12	50	12.0	15.8	35	reel
NY-MG17-BK30	17	30	16.5	21.2	50	reel
NY-MG23-BK30	23	30	22.3	28.5	60	reel
NY-MG29-BK30	29	30	28.2	34.5	70	reel
NY-MG36-BK30	36	30	36.0	42.5	85	reel
NY-MG48-BK30	48	30	47.1	54.5	100	reel

For Shureflex® Nylon Fittings & Accessories: see pages 317 to 325

See page 281 for explanations on min. bending radius and temperature ranges

Type EG - Extra Flexible grade (PA12)

Ultra-flexible nylon conduits



- High performance Polyamide 12
- Extremely flexible, even at negative temperatures and in very dry atmospheres
- Resistant to fuel, mineral oils, greases and diluted bases
- To be used with the Shureflex® Nylon Fittings to provide a water-tight system (rated IP66) without the need for any additional accessory
- For the insulation and the mechanical protection of electrical cables in industrial applications, in accordance with EN60204 (Machine Safety)
- Especially recommended for demanding applications requiring repetitive bending and flexing movements, such as robotics, automation, production equipment

Technical Information

Material	Polyamide 12
Colour	Black
Temperature range	-50°C to +90°C (intermittent: to +140°C)
Flammability rating	UL 94 HB
IP rating	IP66, with Shureflex® Nylon fittings IP69K, with Shureflex® Nylon fittings and additional Shureflex® washer and O-ring
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant

Product Ref.	Nominal size [mm]	Length [m]	Internal diameter [mm]	External diameter [mm]	Min. bending radius [mm]	Type of packaging
NY-EG07-BK50	7	50	6.5	10.0	20	reel
NY-EG10-BK50	10	50	9.5	13.0	25	reel
NY-EG12-BK50	12	50	12.0	15.8	35	reel
NY-EG17-BK30	17	30	16.4	21.2	50	reel
NY-EG23-BK30	23	30	22.6	28.5	60	reel
NY-EG29-BK30	29	30	28.1	34.5	70	reel
NY-EG36-BK10	36	10	36.0	42.5	85	reel
NY-EG48-BK10	48	10	47.5	54.5	100	reel

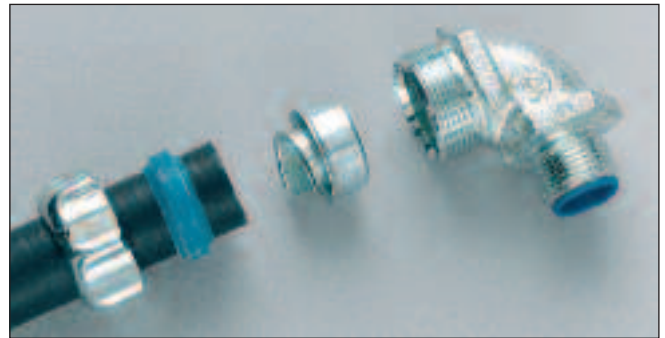
For Shureflex® Nylon Fittings & Accessories: see pages 317 to 325
See page 281 for explanations on min. bending radius and temperature ranges

Degree of protection (IP rating)

Material specifications

Degrees of Protection of enclosures according to DIN 40050 IEC 144/529

IP (Ingress Protection) and 2 figures (IPXY) indicates the protection class, the first figure X indicating the degree of protection against ingress of solid foreign objects, and the second figure Y indicating the degree of protection against ingress of water.



Degree of protection X	Protection of equipment against ingress of solid foreign objects	Degree of protection Y	Protection of equipment against ingress of water
0	Non-protected	0	Non-protected
1	Protected against solid foreign objects of 50 mm ø & greater	1	Protected against vertically falling water drops
2	Protected against solid foreign objects of 12.5 mm ø & greater	2	Protected against vertically falling water drops when enclosure is tilted up to 15°
3	Protected against solid foreign objects of 2.5 mm ø & greater	3	Protected against spraying water
4	Protected against solid foreign objects of 1.0 mm ø & greater	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against powerful water jets
		7	Protected against the effects of temporary immersion in water
		8	Protected against the effects of continuous immersion in water subject to agreement
		9K	Protected against the effects of high-pressure, high temperature steam cleaning: spray nozzle with 80 °C water at 8–10 MPa (80–100 bar) pressure (according to DIN 40050-9)

(CHART-IP Protection in accordance with DIN 40050 / IEC 144/529)

Minimum Bending Radius

Material specifications

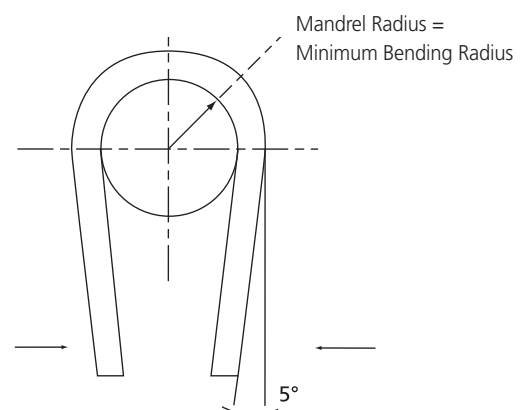
A flexible conduit is able to bend repetitively without permanent deformation. A way to compare the flexibility of different conduits is to define the amplitude of the bending that they can withstand, for example by bending the conduit around a cylindrical object (mandrel) of known radius.

While bending the conduit around a mandrel of large radius remains easy, this operation is getting more and more stringent when the radius is decreased, and the smallest radius that can be reached before damaging the conduit is called the Minimum Bending Radius. Therefore the conduits having smaller Minimum Bending Radius can be qualified as more flexible.

The method for checking the conduit bending is carried out by bending the conduit half turn around a solid mandrel at the Minimum Bending Radius.

As materials get stiffer at low temperatures, the use of the conduits in flexing mode is limited to a narrower range of temperatures than their use in static mode, as shown in the technical specifications of the conduits.

The Minimum Bending Radius shown in the tables is suitable for both the flexing mode (within the flexing temperature range) and the static mode (within the static temperature range)



Prescriptions & specifications

Material specifications

Conduits: directions for use

Below are a few short extracts taken from the relevant prescriptions. VDE 0113/12.73

Metal tubing, pipes and conduits must be used in accordance with the prescribed safety standard.

Paragraph 10.3 1 states that all conduits must be designed to protect against the expected demands made on the product. This is to say, for example, that cable can only be fed through conduit if it is suitably protected from liquids, dust (IP-Protection) and other foreign substances.

Surfaces with which the laid conduits come into contact - such as edges, threads etc. should not damage the insulation of the conduit.

Fittings: directions for use

Conduits and fitting assemblies must be installed in accordance with VDE 0113.

It is not adequate just to feed the conduit into a housing. The conduit must be installed using a lock nut and fitting, which ensure a good electrical connection between the conduit and housing. The conduit must not reduce the protective capability of the housing. In order to ensure the effective installation of the conduit, it is important not only to use a suitable conduit but also to use the appropriate type of fitting. (see IEC-204)

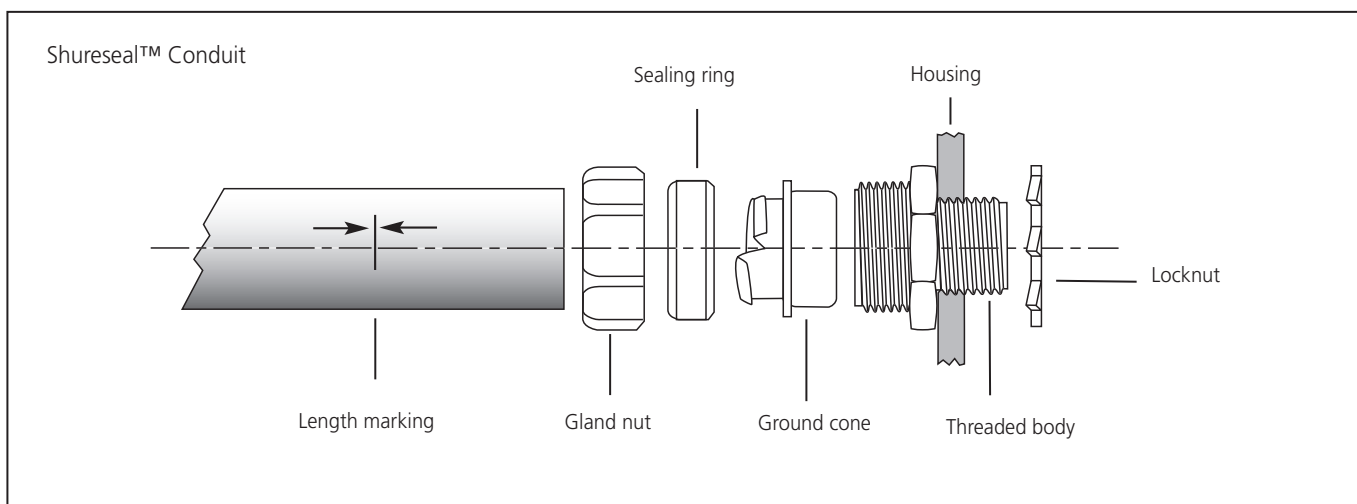
Specifications

Shureseal™ fittings and conduits satisfy the following specifications:

- for heavy industrial applications in accordance with DIN 49012.
- according to IP67 rating
- according to DIN/VDE 0650, section, 2.1.1b
- according to BS731, part 1
- and have the necessary approvals (UL/CSA and VDE)

Installation

Installation is simple. The fitting screws easily onto the conduit, without the need for special tools. The fitting can be removed and re-used again at any time. The fitting also performs excellently against severe vibration. The conduit is not deformed by the fitting. In tests, the fittings have been shown to be extremely secure and guarantee a high level of security and reliability.



Material specifications table

Material specifications

This chart gives an indication of the capabilities of the Shureseal™ liquidtight flexible metallic conduits. It is extremely difficult to provide data on all possible combinations or conditions that can occur.

Therefore it is recommended that this information should be used as a guideline and that the conduit should be tested in the intended application by the user, to determine suitability. If you have specific requirements, please contact Technical Support.

Chemical	TBEF	TBOR	TBHC	TBZH	TBDL	EFC LTC LTC-GY	TYPEA	PGS
OILS AND HYDROCARBONS								
ASTM Oil No 1	T	T	G	P	T	G	–	T
ASTM Oil No 2	T	T	G	P	L	–	–	L
ASTM Oil No 3	T	T	G	P	T	L	L	T
Diesel Oil	T	T	T	T	T	L	L	T
Lubricating Oil	L	L	G	L	L	G	G	L
Paraffin Oil	G	G	T	T	G	G	–	G
Petrol	G	G	L	T	G	–	–	G
Skydrol 500B	T	T	G	T	T	–	P	T
Transformer Oil	T	T	T	T	T	–	–	T
Vegetable Oils	T	T	T	T	T	–	G	T
ORGANIC SOLVENTS								
Acetone	P	P	L	P	P	P	P	P
Benzene	P	P	L	P	P	P	P	P
Ethyl Alcohol	P	P	L	L	P	G	L	P
Ethylene Glycol	L	L	G	T	L	G	G	L
Eteon 12	T	T	G	T	T	–	–	T
Methyl Alcohol	P	P	G	L	P	G	L	P
Methyl Ethyl Ketone	T	T	L	P	T	P	P	T
Toluene 100 %	P	P	L	L	P	P	P	P
Turpentine 100 %	L	L	T	L	L	L	L	L
White Spirit	T	T	T	L	T	–	–	T
ACIDS AND SALTS GIVING ACID SOLUTIONS								
Acetic Acid 10 %	G	G	G	T	G	G	G	G
Acetic Acid 20%	L	L	G	T	L	–	–	L
Hydrochloric Acid 10 %	–	–	–	–	–	–	G	–
Hydrochloric Acid 20 %	L	L	L	P	L	G	–	L
Hydrochloric Acid 40 %	–	–	–	–	–	–	L	–
Lactic Acid (90%)	T	T	T	T	T	P	–	T
Oxalic Acid	G	G	T	T	G	G	G	G
Zinc Chloride	G	G	G	T	G	G	G	G
BASES AND SALTS GIVING BASIC SOLUTIONS								
Aluminium Chloride (10%)	G	G	G	G	G	G	G	G
Sodium Hydroxide (20%)	T	T	G	G	T	G	G	T
Sodium Hydroxide (45%)	T	T	L	L	T	G	G	T
OTHERS								
Ozone Gas	G	G	T	T	G	–	–	G
Sea Water	G	G	G	G	G	G	G	G

G = Good

L = Limited

P = Poor

T = No data available

likely to have minor effect



Fittings
Metal and plastic fittings
with positive sealing
against liquids and dust

CONDUIT & FITTINGS

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4.3 SHURESEAL™ CABLE GLANDS 330



Shureseal™ and Shureflex® Fittings & Accessories

All our high-performance products are designed to deliver excellent reliability as well as ease of installation in virtually any application. Thomas & Betts offers two ranges of fittings for its Shureseal™ and Shureflex® flexible conduits

Shureseal™ liquidtight fittings for metallic conduits

Thomas & Betts offers the largest and most technologically advanced line of liquidtight fittings in the industry, including connectors for highly-specialised applications such as power and petrochemical plants, paper mills, robot manufacturers, packaging equipment, machine tool building, and other OEM and MRO applications. At Thomas & Betts, we integrate the



Metal and Plastic fittings with positive sealing against liquids and dust

latest manufacturing technologies with the highest quality materials available. So you can be assured of reliable, liquidtight products that offer improved on-the-job performance and reduced installation time and costs.

Shureseal™ liquidtight fittings for non-metallic conduits

This engineering breakthrough meets the demand for a tough, reusable, non-metallic liquidtight fitting for use with TYPEA, EFC, LTC conduits or flexible tubing.

The BULLET® non-metallic fitting provides a reliable liquidtight seal that combines high pullout resistance and ease of installation.

Shureflex® fittings for galvanised steel conduits

Wide choice of fittings especially manufactured for Shureflex® galvanised steel conduits

- Manufactured in nickel-plated brass for a professional quality and finish
- Highly crush resistant with an excellent pull-off strength

Ideal for industrial and commercial applications where flexibility, crush and vibration resistance are required

Offers an economic solution for the protection of cables for industrial and commercial applications

Shureflex® fittings for nylon conduits

The Shureflex® Nylon conduit and fittings from Thomas & Betts provide all the benefits of a Halogen free, flexible watertight system of protection for electrical cables.

In particular, the high performance fitting, with its unique self-locking mechanism, allows a quick and secure installation with a watertight protection and an outstanding mechanical strength.

With four different grades of conduits and a wide range of fittings and accessories available in black, this system is ideally suitable for all types of applications in general wiring, industrial equipment, machine tools and machinery, production equipment, control equipment, robotics, automotive, transportation, railway.

Selection guide

Fittings and accessories

	Fitting style type	Conduit	TB series	TYPEA	EFC	LTC series
SHURESEAL™ FLEXIBLE METALLIC LIQUIDTIGHT CONDUITS						
	straight	Flexible metallic liquidtight conduits	X			
	45° angled	Flexible metallic liquidtight conduits	X			
	90° angled	Flexible metallic liquidtight conduits	X			
	chase	Flexible metallic liquidtight conduits	X			
	hub & adaptor	Flexible metallic liquidtight conduits	X			
SHURESEAL™ FLEXIBLE NON-METALLIC LIQUIDTIGHT CONDUITS						
	straight	Flexible non-metallic liquidtight conduits		X	X	X
	45° angled	Flexible non-metallic liquidtight conduits		X	X	X
	90° angled	Flexible non-metallic liquidtight conduits		X	X	X
	chase	Flexible non-metallic liquidtight conduits			X	X
SHUREFLEX® FLEXIBLE METALLIC CONDUITS						
	straight male	Flexible metallic conduits				
	straight female	Flexible metallic conduits				
	swiveled	Flexible metallic conduits				
	chase	Flexible metallic conduits				
SHUREFLEX® ULTRA-FLEXIBLE NYLON CONDUITS						
	straight	Ultra-flexible nylon conduits				
	45° angled	Ultra-flexible nylon conduits				
	90° angled	Ultra-flexible nylon conduits,				
	T-split	Ultra-flexible nylon conduits				

UGS PGS	NY series	ISO metric thread	NPT thread	Imperial thread	PG thread	UNEF thread	Approvals	Material	IP rating	Page
		X	X	X	X		UL / CSA	steel / stainless steel	IP67	292
		X	X	X	X		UL / CSA	steel / stainless steel	IP67	296
		X	X	X	X		UL / CSA	steel / stainless steel	IP67	294
							UL / CSA	steel	IP67	300
		X	X			X	UL / CSA	steel	IP67	301
		X	X				UL / CSA / meets coast guard cg293	steel / thermoplastic	IP65 / IP66	from 302 to 307
		X	X				UL / CSA	steel / thermoplastic	IP65 / IP66	from 302 to 307
		X	X				UL / CSA / meets coast guard cg293	steel / thermoplastic	IP65 / IP66	from 302 to 307
								steel	IP65	308
X		X			X			brass	IP40 / IP54	from 313 to 316
X		X			X			brass	IP40 / IP54	from 313 to 316
X		X			X			brass	IP40 / IP54	from 313 to 316
X								brass	IP40 / IP54	from 313 to 316
	X	X			X		UL	Polyamide 6	IP66 / IP69K	318
	X	X			X		UL	Polyamide 6	IP66 / IP69K	319
	X	X			X		UL	Polyamide 6	IP66 / IP69K	320
	X							Polyamide 6	IP66 / IP69K	321

Product description

Liquidtight fittings for flexible metallic conduits

A standard fitting assembly is made of 4 pieces:

1. A screw body with a nylon throat on the connection side
2. The ground cone
3. The patented Nylon sealing ring
4. A gland nut

In addition, a locknut is supplied with the fittings with NPT thread.

Double Bevelled Sealing Ring

Unique sealing mechanism to prevent backwards installation. Look for the unique T&B Blue colour, ensuring the highest quality liquidtight product available.

Safe Edge™ Ground Cone

Provides superior bonding, stronger pullout and easy threading into the conduit core. The electrical continuity is ensured while the rounded edge protects the cable.

Double Plating for superior corrosion protection. Zinc plating with clear Chromate finish.

Precision Rolled Threads

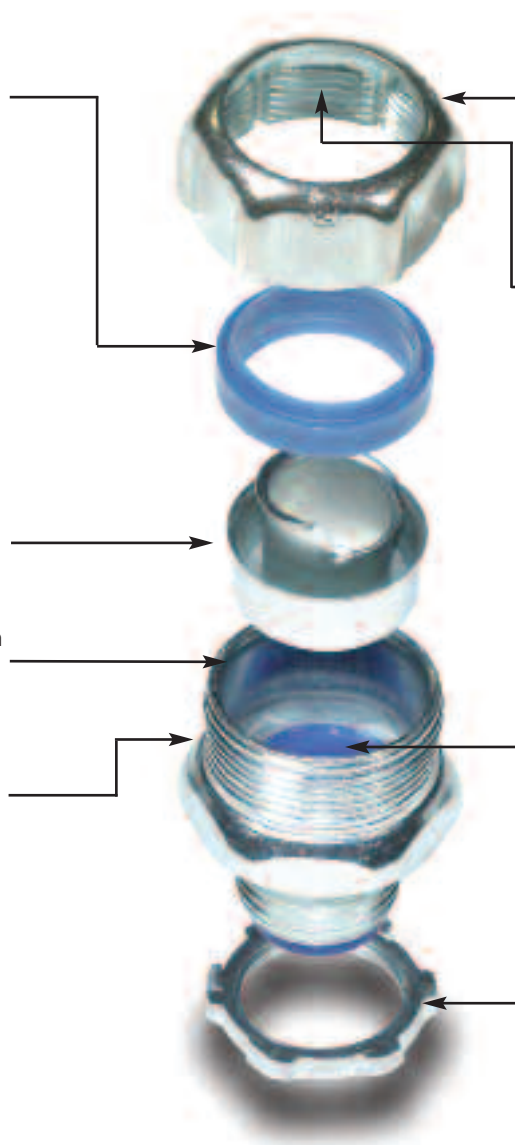
provides smooth, easy installations and is stronger than cut threads. The body is drawn steel for exceptional strength and quality.

Sure-Tight™ Gland Nuts deflects water away from connector and prevents "pooling" of moisture. Look for the distinctive "Pumpkin" appearance of the gland nut.

Self-Cleaning Threads inside the gland nut keep dirt and grime out of the threads as you tighten.

Heat Curled Insulator curled inside the body provides excellent wire protection and easier glide of the conductors through and into the fitting. Also, the heat-curved finish gives the insulator more strength compared to "glue-in" versions. Look for the distinctive blue insulator for your assurance of T&B quality.

Case-Hardened Locknut with Teeth provides superior strength and electrical bonding and can be installed without a wrench in the enclosure.



Product description

Liquidtight fittings for flexible metallic conduits

When correctly installed, the Shureseal™ fittings produce a positive seal against oil, liquids, moisture and dust.

The main features of the assembly include:

- a high resistance to conduit pull-off and a great resistance to vibration from machines
- an excellent earth continuity
- simplicity of installation: ability to install quickly by hand (or with standard spanners or wrenches, but no special tools are needed)
- the fittings will not damage or distort the flexible conduit.
- the nylon throat bush makes it easier to pull wires through without risk of damage.
- the fittings have a rugged construction and can be disconnected and reused.
- available with N.P.T., Imperial, P.G. and metric (I.S.O.) threads
- excellent IP ratings

The patented ground cone design offers the following advantages:

- it compresses the metallic convolutions of the conduit, providing a high quality ground contact with low impedance and a high conduit pull-off resistance
- the single helical thread on the ground cone is easy to install without cross threading
- it tolerates variations in conduit diameters and convolution pitch
- its rolled-over edge protects the conductors

The patented sealing ring design has the following exclusive features:

- it grips and seals the conduit without damaging the conduit jacket
- its symmetrical shape assures a foolproof assembly
- it ensures a positive seal against oils, liquids, moisture and dust

The range of fittings includes 5 different styles:

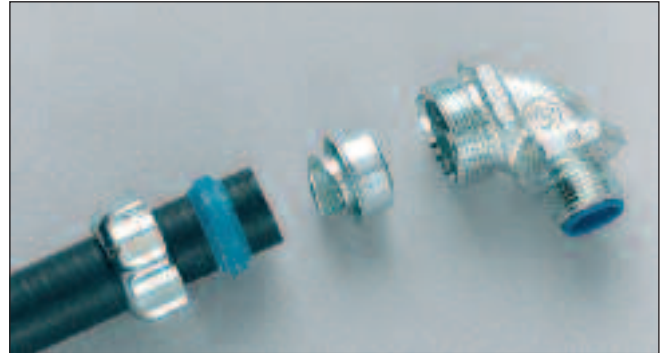
- straight version
- 45° version
- 90° version
- "Chase" = compact version for confined spaces, behind panels and boxes
- "Female Hub" version, for connecting flexible conduit direct to rigid conduit and flexible conduits

Approvals

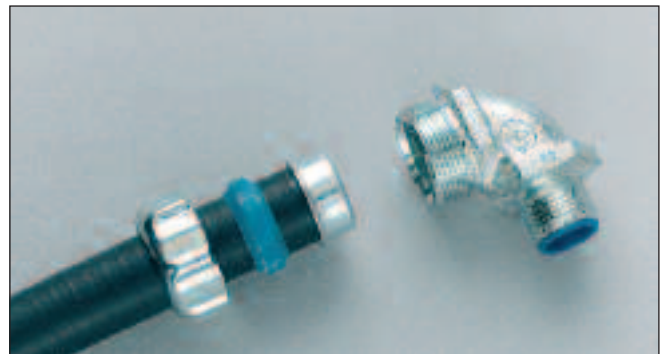
- C.E.G.B. approved (UK)
- UL listed Liquidtight File No E 23018
- ISO threads per BS 4568
- PG threads per DIN 40430
- Canadian Standard Association: File No. 002884, File No. LR 52391, File No. LR 82069

Easy assembly without the requirement of any special tooling

1. Slide the gland nut and the sealing ring onto the conduit



2. Screw the ground cone into the conduit (between the convolutions) as far as possible



3. Screw the body and the gland nut together and tighten



Straight fittings

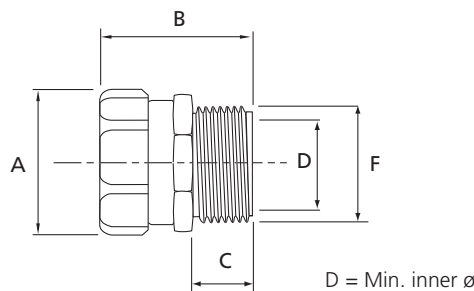
Liquidtight fittings for flexible metallic conduits



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E23018



- High-performance fittings for Shureseal™ Liquidtight conduits
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts
- Special fittings (HT series) rated at 150°C are available for high temperature applications - please contact your Sales Office for product availability

Technical Information

Conduit type	Shureseal™ flexible metallic conduit
Style	Straight
Thread	Metric (I.S.O.) and PG
IP rating	IP67
Material	Galvanised steel chromate finish
Inner sleeve and sealing ring	Polyamide
Colour	Metallic

Product Ref.	For conduit size		Thread size	A	B	Dimensions		D	F	Weight	Quantity
	[inch]	[mm]		[mm]	[mm]	C		[mm]	[mm]	[kg/100]	[pieces]
STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD											
9306*	⁵ / ₁₆	12	M16	22	36	12		10.0	16.0	5.1	25
9307	⁵ / ₁₆	12	M20	22	36	12		10.0	20.0	5.1	25
9330*	¹ / ₄	10	M16	22	36	12		6.0	16.0	3.5	25
9331*	¹ / ₄	10	M20	22	36	12		6.0	20.0	3.5	25
9360	³ / ₈	16	M16	29	40	16		11.0	16.0	6.3	25
9361	³ / ₈	16	M20	29	40	16		11.0	20.0	6.3	25
9362	¹ / ₂	20	M20	35	42	16		14.5	20.0	8.1	25
9363	³ / ₄	25	M25	42	45	16		20.0	25.0	12.6	25
9364	1	32	M32	47	54	15		25.0	32.0	23.0	5
STRAIGHT FITTING WITH PG THREAD											
7329	¹ / ₄	10	PG 7	12	23	6		5.6	12.2	2.2	25
7330*	¹ / ₄	10	PG 9	21	36	12		6.0	15.2	3.5	25
7360*	⁵ / ₁₆	12	PG 9	26	36	12		10.0	15.2	5.1	25
7361	³ / ₈	16	PG 11	29	40	14		11.0	18.6	6.3	25
7362	³ / ₈	16	PG 13.5	29	40	14		11.0	20.4	6.3	25
7363	¹ / ₂	20	PG 16	35	41	14		14.5	22.5	8.1	25
7364	³ / ₄	25	PG 21	42	43	14		20.0	28.3	12.6	25
7365	1	32	PG 29	47	56	19		25.0	37.0	23.0	5
7366	1 ¹ / ₄	40	PG 36	58	67	21		33.5	47.0	41.4	5
7367	1 ¹ / ₂	50	PG 42	69	72	21		38.5	54.0	47.3	2
7368	2	63	PG 48	83	81	21		49.5	59.3	72.0	1

* The products with a * are not UL/CSA approved

Straight fittings

Liquidtight fittings for flexible metallic conduits

- High-performance fittings for Shureseal™ Liquidtight conduits
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- A locknut is supplied with the fittings with NPT thread
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts
- Special fittings (HT series) rated at 150°C are available for high temperature applications - please contact your Sales Office for product availability



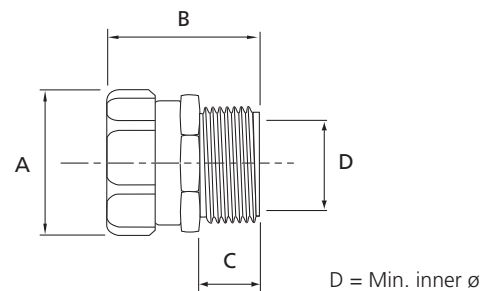
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Technical Information

Conduit type	Shureseal™ flexible metallic conduit
Style	Straight
Thread	NPT and Imperial
IP rating	IP67
Material	Galvanised steel chromate finish
Inner sleeve and sealing ring	Polyamide
Colour	Metallic



Product Ref.	For conduit size		Thread size	A	B	Dimensions C	D	Weight	Quantity
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[kg/100]	[pieces]
STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT)									
5229*	1/4	10	1/4"	21	35	12	6.0	3.5	25
5330*	5/16	12	3/8"	25	35	12	10.0	5.1	25
5331	3/8	16	1/2"	29	38	14	11.0	6.3	25
5332	1/2	20	1/2"	35	40	14	14.5	8.1	25
5333	3/4	25	3/4"	42	41	14	20.0	12.6	25
5334-TB	1	32	1"	48	52	19	25.0	23.0	10
5335	1 1/4	40	1 1/4"	58	64	21	33.5	41.4	5
5336	1 1/2	50	1 1/2"	69	68	21	38.5	47.3	2
5337	2	63	2"	83	78	22	49.5	72.0	5
5338	2 1/2	75	2 1/2"	95	105	25	61.0	135.5	5
5339	3	90	3"	114	108	25	75.0	168.8	5
5340	4	115	4"	140	114	29	99.0	275.4	1
STRAIGHT FITTING WITH IMPERIAL THREAD									
6365	1 1/4	40	1 1/2"	58	64	21	33.5	41.4	5
6366	1 1/2	50	2"	69	68	21	38.5	47.3	2
6367	2	63	2 1/2"	83	78	22	49.5	72.0	5

* The products with a * are not UL/CSA approved and are supplied without locknut

90° fittings

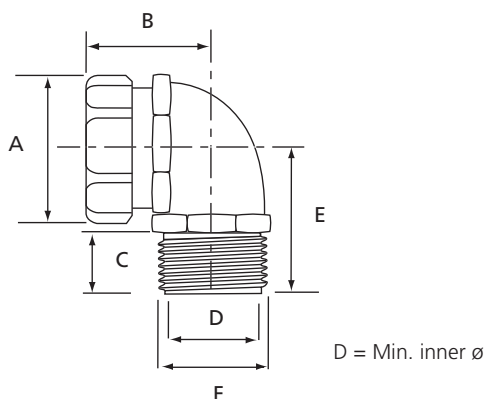
Liquidtight fittings for flexible metallic conduits



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- High-performance fittings for Shureseal™ Liquidtight conduits
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts
- Special fittings (HT series) rated at 150°C are available for high temperature applications - please contact your Sales Office for product availability

Technical Information

Conduit type	Shureseal™ flexible metallic conduit
Style	90°
Thread	Metric (I.S.O.) and PG
IP rating	IP67
Material	Galvanised steel chromate finish
Inner sleeve and sealing ring	Polyamide
Colour	Metallic

Product Ref.	For conduit size		Thread size	A	B	Dimensions		E	F	Weight	Quantity
	[inch]	[mm]		[mm]	[mm]	C	D	[mm]	[mm]	[kg/100]	[pieces]
90° FITTING WITH METRIC (I.S.O.) THREAD											
9350	³ / ₈	16	M16	28	35	16	10.1	34	16.0	12.6	25
9351	³ / ₈	16	M20	28	35	16	10.1	34	20.0	12.6	25
9352-TB	¹ / ₂	20	M20	34	39	16	14.5	34	20.0	14.4	25
9353-TB	³ / ₄	25	M25	42	43	16	20.0	38	25.0	20.2	10
9354-TB	1	32	M32	47	48	23	25.0	43	32.0	30.6	5
90° FITTING WITH PG THREAD											
7351	³ / ₈	16	PG 11	29	37	14	11.0	33	18.6	12.6	25
7352	³ / ₈	16	PG 13.5	29	37	14	11.0	33	20.4	12.6	25
7353	¹ / ₂	20	PG 16	35	40	14	14.5	37	22.5	14.4	25
7354	³ / ₄	25	PG 21	42	44	14	20.0	39	28.3	20.2	5
7355	1	32	PG 29	47	56	21	25.0	48	37.0	30.6	5
7356	1 ¹ / ₄	40	PG 36	58	70	21	33.5	56	47.0	54.0	5
7357	1 ¹ / ₂	50	PG 42	69	75	21	38.5	61	54.0	72.0	2
7358	2	63	PG 48	83	87	24	49.5	66	59.3	103.5	1

90° fittings

Liquidtight fittings for flexible metallic conduits

- High-performance fittings for Shureseal™ Liquidtight conduits
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- A locknut is supplied with the fittings with NPT thread
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts
- Special fittings (HT series) rated at 150°C are available for high temperature applications - please contact your Sales Office for product availability

Technical Information

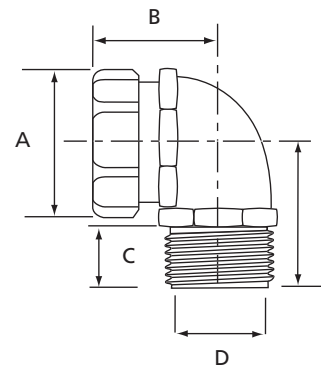
Conduit type	Shureseal™ flexible metallic conduit
Style	90°
Thread	NPT and Imperial
IP rating	IP67
Material	Galvanised steel chromate finish
Inner sleeve and sealing ring	Polyamide
Colour	Metallic



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E23018



D = Min. inner ø

Product Ref.	For conduit size		Thread size	A	B	Dimensions			Weight	Quantity
	[inch]	[mm]	[inch]	[mm]	[mm]	C	D	E	[kg/100]	[pieces]
90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT)										
5351	3/8	16	1/2"	29	35	14	11.0	33	12.6	25
5352	1/2	20	1/2"	35	40	14	14.5	37	14.4	25
5353	3/4	25	3/4"	42	45	14	20.0	39	20.2	10
5354	1	32	1"	48	56	19	25.0	48	30.6	5
5355	1 1/4	40	1 1/4"	58	70	21	33.5	56	54.0	5
5356	1 1/2	50	1 1/2"	69	75	21	38.5	61	72.0	5
5357	2	63	2"	83	287	22	49.5	66	103.5	2
5358	2 1/2	75	2 1/2"	95	225	25	61.0	149	270.0	1
5359	3	90	3"	114	260	25	75.0	219	393.8	1
5360	4	115	4"	140	321	29	99.0	299	551.0	1
90° FITTING WITH IMPERIAL THREAD										
6355	1 1/4	40	1 1/2"	58	64	21	33.5	56	54.0	5

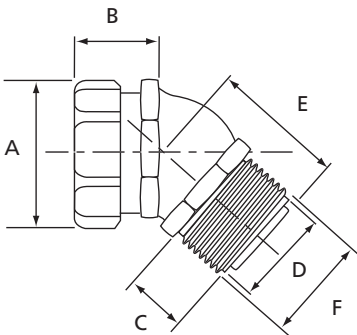
45° fittings

Liquidtight fittings for flexible metallic conduits



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E23018



D = Min. inner ø

- High-performance fittings for Shureseal™ Liquidtight conduits
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts
- Special fittings (HT series) rated at 150°C are available for high temperature applications - please contact your Sales Office for product availability

Technical Information

Conduit type	Shureseal™ flexible metallic conduit
Style	45°
Thread	Metric (I.S.O.) and PG
IP rating	IP67
Material	Galvanised steel chromate finish
Inner sleeve and sealing ring	Polyamide
Colour	Metallic

Product Ref.	For conduit size		Thread size	Dimensions						Weight	Quantity
	[inch]	[mm]		A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]		
45° FITTING WITH METRIC (I.S.O.) THREAD											
9340	3/8	16	M16	28	35	16	10.1	34	16.0	12.6	25
9341	3/8	16	M20	28	35	16	10.1	34	20.0	12.6	25
9342	1/2	20	M20	34	39	16	14.5	34	20.0	14.4	25
9343-TB	3/4	25	M25	42	43	16	20.0	38	25.0	20.2	10
9344	1	32	M32	47	48	23	25.0	43	32.0	30.6	5
45° FITTING WITH PG THREAD											
7341	3/8	16	PG 11	29	37	14	11.0	33	18.6	12.6	25
7342	3/8	16	PG 13.5	29	37	14	11.0	33	20.4	12.6	25
7343	1/2	20	PG 16	35	40	14	14.5	37	22.5	14.4	25
7344-TB	3/4	25	PG 21	42	44	14	20.0	39	28.3	20.2	5
7345	1	32	PG 29	47	56	21	25.0	48	37.0	30.6	5
7346	1 1/4	40	PG 36	58	70	21	33.5	56	47.0	54.0	5
7347	1 1/2	50	PG 42	69	75	21	38.5	61	54.0	72.0	2
7348-TB	2	63	PG 48	83	87	24	49.5	66	59.3	103.5	1

45° fittings

Liquidtight fittings for flexible metallic conduits

- High-performance fittings for Shureseal™ Liquidtight conduits
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- A locknut is supplied with the fittings with NPT thread
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts
- Special fittings (HT series) rated at 150°C are available for high temperature applications - please contact your Sales Office for product availability

Technical Information

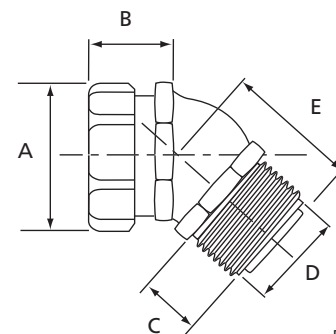
Conduit type	Shureseal™ flexible metallic conduit
Style	45°
Thread	NPT and Imperial
IP rating	IP67
Material	Galvanised steel chromate finish
Inner sleeve and sealing ring	Polyamide
Colour	Metallic



002884



E23018



D = Min. inner ø

Product Ref.	For conduit size		Thread size	A	B	Dimensions			Weight	Quantity
	[inch]	[mm]	[inch]	[mm]	[mm]	C	D	E	[kg/100]	[pieces]
45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT)										
5341	3/8	16	1/2"	29	35	14	11.0	33	12.6	25
5342	1/2	20	1/2"	35	40	14	14.5	37	14.4	25
5343	3/4	25	3/4"	42	45	14	20.0	39	20.2	10
5344	1	32	1"	48	56	19	25.0	48	30.6	5
5345	1 1/4	40	1 1/4"	58	70	21	33.5	56	54.0	5
5346	1 1/2	50	1 1/2"	69	75	21	38.5	61	72.0	2
5347	2	63	2"	83	287	22	49.5	66	103.5	1
5348*	2 1/2	75	2 1/2"	95	225	25	61.0	149	270.0	1
5349*	3	90	3"	114	260	25	75.0	219	393.8	1
5350*	4	115	4"	140	321	29	99.0	299	551.0	1
45° FITTING WITH IMPERIAL THREAD										
6346	1 1/2	50	2"	69	68	21	38.5	61	72.0	2

* The Product Ref. with a * are not UL/CSA approved

Straight stainless steel fittings

Liquidtight fittings for flexible metallic conduits



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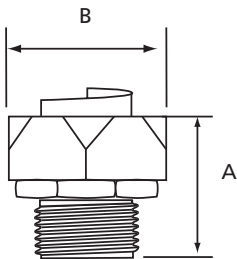


E23018

- Ideal for industrial MRO and OEM applications in food and beverage, pharmaceutical, petrochemical, wastewater, salt water, and other corrosive environments
- 304 stainless steel body and gland-nut resists corrosion far better than other metallic fittings
- Stronger, more UV-resistant than non metallic fittings

Technical Information

Conduit type	Shureseal™ flexible metallic conduit
Style	straight
Thread	Metric (I.S.O.) and NPT
IP rating	IP67
Material	304 stainless steel
Inner sleeve and sealing ring	Blue Polyamide
Colour	Metallic



Product Ref.	For conduit size		Thread size	Dimensions		Weight	Quantity
	[inch]	[mm]		A [mm]	B [mm]		
STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD							
9361SST	3/8	16	M20	34.5	27.0	5.2	25
9362SST	1/2	20	M20	34.5	30.0	6.2	25
STRAIGHT FITTING WITH NPT THREAD							
5331SST-EU	3/8	16	3/8	34.5	25.9	5.2	25
5332SST-EU	1/2	20	1/2	34.5	30.0	6.2	25
5333SST-EU	3/4	25	3/4	35.3	34.8	8.9	25
5334SST-EU	1	32	1	39.7	45.0	17.9	5
5335SST	1 1/4	40	1 1/4	43.7	53.9	27.9	5
5336SST	1 1/2	50	1 1/2	51.3	63.0	43.8	5
5337SST	2	63	2	59.3	77.2	73.5	2

45° and 90° stainless steel fittings

Liquidtight fittings for flexible metallic conduits

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Technical Information

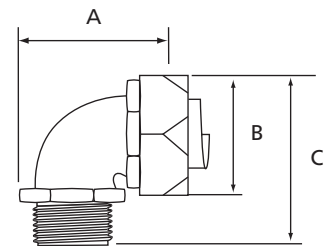
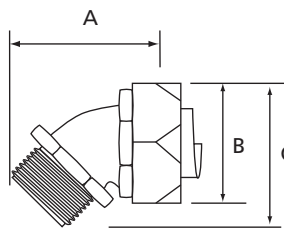
Conduit type	Shureseal™ flexible metallic conduit
Style	45° and 90°
Thread	Metric (I.S.O.) and NPT
IP rating	IP67
Material	304 stainless steel
Inner sleeve and sealing ring	Blue Polyamide
Colour	Metallic



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Product Ref.	For conduit size		Thread size	A	Dimensions B	C	Weight	Quantity
	[inch]	[mm]		[mm]	[mm]	[mm]	[kg/100]	[pieces]
45° FITTING WITH METRIC (I.S.O.) THREAD								
9341SST	$\frac{3}{8}$	16	M20	46.7	27.0	-	7.5	25
9342SST	$\frac{1}{2}$	20	M20	41.2	30.0	-	10.6	25
45° FITTING WITH NPT THREAD								
5341SST-EU	$\frac{3}{8}$	16	$\frac{3}{8}$	46.7	25.9	36.3	7.5	25
5342SST-EU	$\frac{1}{2}$	20	$\frac{1}{2}$	41.2	30.0	51.8	10.6	25
5343SST-EU	$\frac{3}{4}$	25	$\frac{3}{4}$	59.0	34.8	49.0	15.7	10
5344SST-EU	1	32	1	72.6	45.0	60.2	26.5	5
5345SST	$1 \frac{1}{4}$	40	$1 \frac{1}{4}$	84.6	53.9	71.1	45.2	5
5346SST	$1 \frac{1}{2}$	50	$1 \frac{1}{2}$	100.1	63.0	86.1	69.1	2
5347SST	2	63	2	120.1	77.2	107.4	125.0	1
90° FITTING WITH METRIC (I.S.O.) THREAD								
9351SST	$\frac{3}{8}$	16	M20	49.5	27.0	-	9.5	25
9352SST	$\frac{1}{2}$	20	M20	53.9	30.0	-	14.5	25
90° FITTING WITH NPT THREAD								
5351SST-EU	$\frac{3}{8}$	16	$\frac{3}{8}$	49.5	25.9	46.7	9.5	25
5352SST-EU	$\frac{1}{2}$	20	$\frac{1}{2}$	53.9	30.0	52.6	14.5	25
5353SST-EU	$\frac{3}{4}$	25	$\frac{3}{4}$	62.7	34.8	62.0	22.0	10
5354SST-EU	1	32	1	75.7	45.0	73.7	31.7	5
5355SST	$1 \frac{1}{4}$	40	$1 \frac{1}{4}$	89.7	53.9	85.3	57.6	5
5356SST	$1 \frac{1}{2}$	50	$1 \frac{1}{2}$	105.7	63.0	98.6	82.9	2
5357SST	2	63	2	218.4	77.2	119.1	143.0	1

"Chase" fittings, straight or right-angled

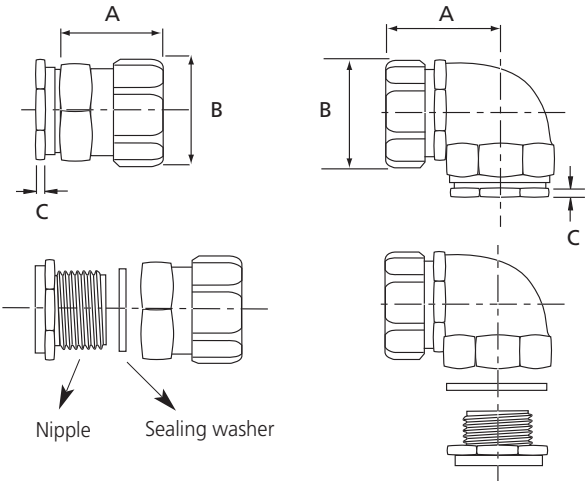
Liquidtight fittings for flexible metallic conduits



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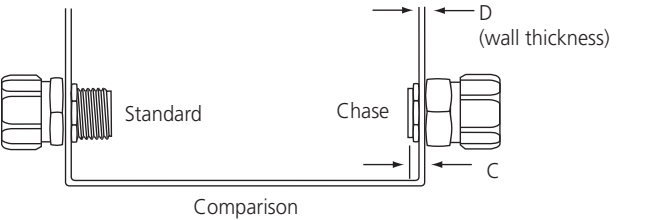
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- High-performance fittings for Shureseal™ liquidtight conduits
- Special compact version (CHASE) for space-saving assembly, thanks to the male nipple (supplied with the fitting) that can be screwed into the female thread of the body
- Safe and effective installation without any efforts
- The fitting is composed of 6 parts: the threaded body, the steel ground cone, the nylon sealing ring, the gland nut, the sealing washer and a male nipple, ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts

Technical Information

Conduit type	Shureseal™ flexible metallic conduit
Style/thread	Straight, 90° angled / NPT threads
IP rating	IP67
Material	Zinc plated steel
Insulation throat and sealing ring	Polyamide
Colour	Metallic



Product Ref.	For conduit size		Dimensions			For wall thickness (D) up to [mm]	Installation hole diameter [mm]	Weight [kg/100]	Quantity [pieces]
	[inch]	[mm]	A [mm]	B [mm]	C [mm]				
STRAIGHT CHASE FITTING (SUPPLIED WITH MALE NIPPLE AND SEALING WASHER)									
5361	3/8	16	35	30	3.2	5	22.2	8.1	25
5362	1/2	20	35	36	4.7	5	22.2	9.9	25
5363	3/4	25	41	44	6.3	8	27.8	15.4	25
5364	1	32	52	50	6.3	10	33.3	29.0	10
5365	1 1/4	40	60	69	7.9	12	44.5	58.0	5
5366	1 1/2	50	69	75	9.5	13	50.8	68.0	2
5367	2	63	76	88	9.5	15	63.5	99.7	1
5368	2 1/2	75	100	107	11.1	15	76.2	199.4	1
5369	3	90	105	125	17.2	17	92.1	253.7	1
5370	4	115	111	155	19.0	19	117.5	407.7	1
90° CHASE FITTING (SUPPLIED WITH MALE NIPPLE AND SEALING WASHER)									
5371	3/8	16	38	30	3.2	5	22.2	8.1	25
5372	1/2	20	37	36	4.7	5	22.2	9.9	25
5373	3/4	25	48	44	6.3	8	27.8	18.1	10
5374	1	32	57	50	6.3	10	33.3	30.8	5

Female hub and adaptor fittings

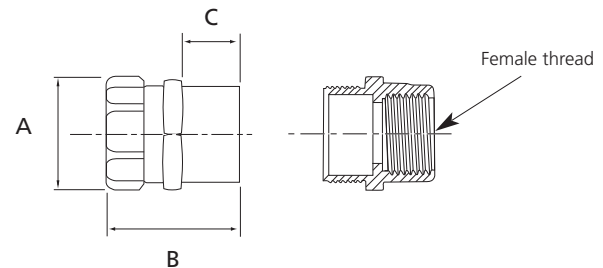
Liquidtight fittings for flexible metallic conduits

- Special type hub fitting with female (internal) thread for connecting flexible conduits to rigid conduits or for connecting 2 flexible conduits together (using male fittings)
- Special type adaptor fitting with female (internal) thread for connecting flexible conduits to AN-MS connector shells (such as MIL-C-5015 connectors and accessories)
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts



Technical Information

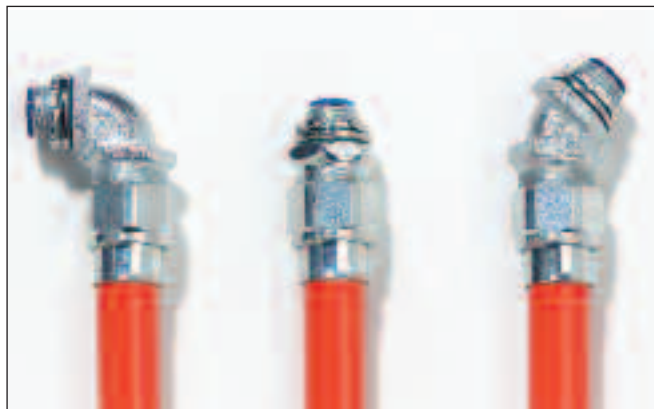
Conduit type	Shureseal™ flexible metallic conduits
Style	Straight
Thread	NPT, Metric (I.S.O.) and UNEF female threads
IP rating	IP67
Material	Zinc plated steel
Insulation throat and sealing ring	Polyamide
Colour	Metallic



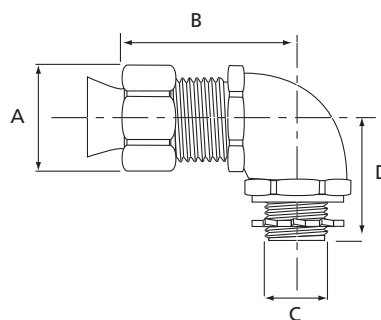
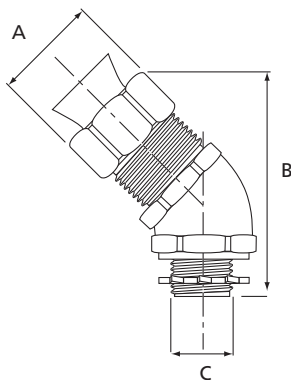
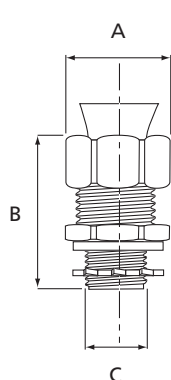
Product Ref.	For conduit size		Inner thread	AN-MS connector Shell size	Dimensions			Weight	Quantity
	[inch]	[mm]			A [mm]	B [mm]	C [mm]	[kg/100]	[pieces]
STRAIGHT FEMALE HUB FITTING WITH METRIC (I.S.O.) THREAD									
9270	3/8	16	M16	–	28	40	15	7.0	25
9271	3/8	16	M20	–	30	40	15	7.2	25
9272	1/2	20	M20	–	34	43	15	10.0	25
9273	3/4	25	M25	–	42	45	15	14.5	25
9274	1	32	M32	–	47	54	15	19.0	5
STRAIGHT FEMALE HUB FITTING WITH NPT THREAD									
5271	3/8	16	1/2"	–	25	40	15	7.2	25
5272	1/2	20	1/2"	–	32	43	15	10.0	25
5273	3/4	25	3/4"	–	38	44	15	14.5	25
5274	1	32	1"	–	44	54	20	19.0	10
5275	1 1/4	40	1 1/4"	–	58	64	20	32.6	5
5276	1 1/2	50	1 1/2"	–	70	68	20	54.4	5
5277	2	63	2"	–	88	78	25	72.5	5
STRAIGHT ADAPTORS FITTING WITH UNEF THREAD									
LTA03810	3/8	16	5/8" - 24 UNEF-2B	10SL, 12, 12S	25.4	11.9	–	6.8	25
LTA03814	3/8	16	3/4" - 20 UNEF-2B	14, 14S	25.4	11.9	–	7.3	25
LTA05014	1/2	20	3/4" - 20 UNEF-2B	14, 14S	31.8	23.8	–	8.7	25
LTA05016	1/2	20	7/8" - 20 UNEF-2B	16, 16S	31.8	23.8	–	8.7	25
LTA05018	1/2	20	1" - 20 UNEF-2B	18	31.8	23.8	–	8.7	25
LTA07516	3/4	25	7/8" - 20 UNEF-2B	16, 16S	38.1	27.0	–	13.6	25
LTA07518	3/4	25	1" - 20 UNEF-2B	18	38.1	27.0	–	13.6	25
LTA07520	3/4	25	1 3/16" - 18 UNEF-2B	20, 22	38.1	27.0	–	13.6	25
LTA10020	1	32	1 3/16" - 18 UNEF-2B	20, 22	43.7	44.5	–	21.0	10
LTA10024	1	32	1 7/16" - 18 UNEF-2B	25, 28	43.7	44.5	–	21.0	10

Type TYPEA - metallic fittings

Liquidtight fittings for non-metallic conduits



E23018



- Easy installation
- Inner polyamide sleeve for protection of conductors
- Liquid- and dust-tight in accordance with IP66
- High mechanical stability (high retention)
- Supplied with locknut and sealing washer

Technical Information

Conduit type	Shureseal™ conduit type TYPEA
Style/thread	Straight, 45°, 90° / NPT thread
IP rating	IP66
Material	Galvanised steel, chromate finish
Connecting sleeve and internal insulation	Polyamide 6.6
Sealing washer	Santoprene
Colour	Metallic

Product Ref.	For conduit size		Thread size [inch]	Dimensions				Weight [kg/100]	Quantity [pieces]
	[inch]	[mm]		A [mm]	B [mm]	C [mm]	D [mm]		
STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER)									
3720-TB*	3/8	16	1/2	29.4	51.0	12.0	–	8.2	25
3721-TB	1/2	20	1/2	34.9	54.0	16.0	–	9.1	25
3722-TB	3/4	25	3/4	41.3	57.2	21.0	–	13.6	25
3723	1	32	1	47.6	63.5	26.0	–	23.6	10
3724-TB	1 1/4	40	1 1/4	60.3	76.2	35.0	–	40.0	5
3725	1 1/2	50	1 1/2	69.9	85.7	41.0	–	59.0	2
3726	2	63	2	89.7	92.1	50.0	–	118.0	1
45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER)									
3730-TB*	3/8	16	1/2	29.4	51.6	12.0	–	5.4	25
3731-TB	1/2	20	1/2	34.9	65.1	16.0	–	8.2	25
3732	3/4	25	3/4	41.3	76.2	21.0	–	20.8	10
3733-TB	1	32	1	47.6	88.9	26.0	–	31.2	5
3734-TB	1 1/4	40	1 1/4	60.3	104.8	35.0	–	54.4	5
3735-TB	1 1/2	50	1 1/2	69.9	123.8	41.0	–	77.0	2
90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER)									
3740*	3/8	16	1/2	29.4	41.3	12.0	33.3	5.0	25
3741	1/2	20	1/2	34.9	44.5	16.0	35.7	7.7	25
3742	3/4	25	3/4	41.3	57.2	21.0	39.7	22.6	10
3743-TB	1	32	1	47.6	65.1	26.0	47.6	30.7	5
3744-TB	1 1/4	40	1 1/4	60.3	82.6	35.0	57.2	54.4	5
3745	1 1/2	50	1 1/2	69.9	88.9	41.0	60.3	77.0	2
3746-TB	2	63	2	89.7	104.8	53.2	73.0	145.0	1

* The Product Ref. with a * are not UL approved

Type TYPEA - plastic fittings

Liquidtight fittings for non-metallic conduits

- Easy installation
- High strength, chemical resistant, non-burning, non dripping thermoplastic construction
- Smooth insulated body throughout for maximum dielectric strength
- Ideal for corrosion resistant applications
- Liquid- and dust-tight in accordance with IP66
- Serrated design provides high mechanical pullout strength
- Supplied with steel locknut and sealing O-ring

Technical Information

Conduit type	Shureseal™ conduit type TYPEA
Style	Straight, 90°
Thread	NPT
IP rating	IP66
Material	Thermoplastic
Gland nut	Thermoplastic
O-Ring	Neoprene
Locknut	Steel, case hardened and zinc plated
Colour	Blue
Flammability rating	UL 94 V-0

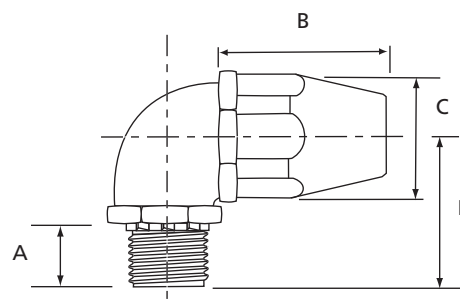
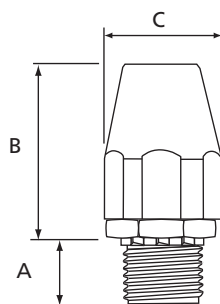


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GUARD



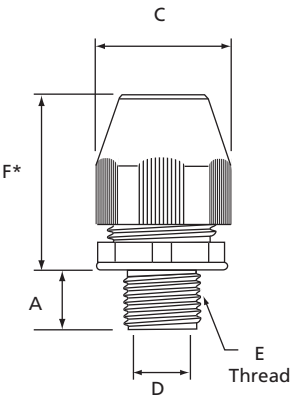
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Product Ref.	For conduit size		Thread size [inch]	Dimensions				Quantity [pieces]
	[inch]	[mm]		A [mm]	B [mm]	C [mm]	D [mm]	
STRAIGHT PLASTIC FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING 'O' RING)								
6302	1/2	20	1/2	37.6	57.9	14.5	–	20
6303	3/4	25	3/4	44.7	62.5	19.1	–	10
6304	1	32	1	53.3	67.6	24.4	–	5
6305	1 1/4	40	1 1/4	67.8	78.5	32.0	–	5
90° PLASTIC FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING 'O' RING)								
6322	1/2	20	1/2	37.6	39.6	14.5	39.9	10
6323	3/4	25	3/4	44.7	44.2	19.1	43.4	10
6324	1	32	1	53.3	45.2	24.4	50.8	5
6325	1 1/4	40	1 1/4	67.8	54.1	32.0	61.2	5

Type EFC / LTC / LTC-GY - plastic Bullet fittings
Liquidtight fittings for non-metallic conduits



* Variable dimensions

- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- The spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Supplied with sealing washer O-ring
- Fittings with NPT threads are supplied with locknut

Technical Information

Conduit type	Shureseal™ conduit type EFC / LTC / LTC-GY
Style	Straight
Thread	NPT and Metric (I.S.O.)
IP rating	IP65
Material	UV-resistant thermoplastic
Locknut	Zinc plated steel
O-ring	Nitryl
Colour	Black
Temperature range	-45°C to +105°C
Flammability rating	Self-extinguishing according to UL 94 V-2

Product Ref.	For conduit size		Thread size	Dimensions		D Min. throat diameter	F* Approx.	Weight	Quantity
	[inch]	[mm]	E	A [mm]	C [mm]	[mm]	[mm]	[kg/100]	[pieces]
STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD									
LT38PISO20	3/8	16	M20	14.5	34.4	10.6	40.5	3.9	20
LT50PISO20	1/2	20	M20	14.5	36.8	14.0	41.6	4.1	20
LT75PISO25	3/4	25	M25	14.8	44.2	18.8	44.6	6.3	10
STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT)									
LT38P	3/8	16	1/2"	14.5	34.4	10.6	40.5	3.9	20
LT50P	1/2	20	1/2"	14.5	36.8	14.0	41.6	4.1	20
LT75P	3/4	25	3/4"	14.8	44.2	18.8	44.6	6.3	10
LT100P	1	32	1"	18.4	52.5	23.9	48.8	9.9	5
LT125P	1 1/4	40	1 1/4"	19.1	63.4	31.9	55.0	15.2	5
LT150P	1 1/2	50	1 1/2"	19.5	70.7	36.9	59.8	21.3	2
LT200P	2	63	2"	20.2	85.4	47.8	66.2	34.0	1

* Dimensions F are after assembly (approx.)

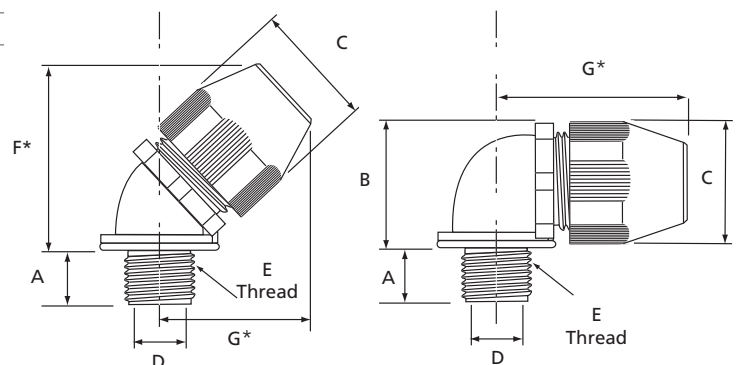
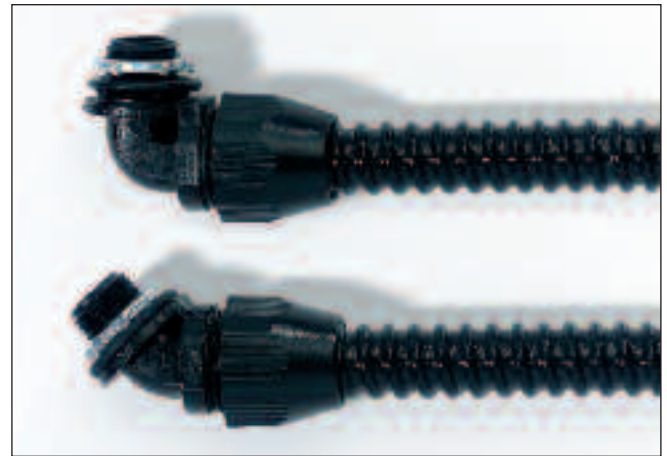
Type EFC / LTC / LTC-GY - plastic Bullet fittings

Liquidtight fittings for non-metallic conduits

- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- The spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Supplied with sealing washer O-ring
- Fittings with NPT threads are supplied with locknut

Technical Information

Conduit type	Shureseal™ conduit type EFC / LTC / LTC-GY
Style	45°, 90°
Thread	NPT and Metric (I.S.O.)
IP rating	IP65
Material	UV-resistant thermoplastic
Locknut	Zinc plated steel
O-ring	Nitril
Colour	Black
Temperature range	-45°C to +105°C
Flammability rating	Self-extinguishing according to UL 94 V-2

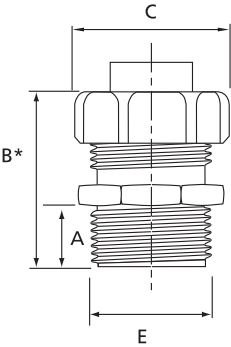


Product Ref.	For conduit size		Thread size E	A	Dimensions B	C	D Min. throat diameter	F* Approx.	G* Approx.	Weight	Quantity
	[inch]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/100]	[pieces]
90° FITTING WITH METRIC (I.S.O.) THREAD											
LT938PISO20	³ / ₈	16	M20	14.5	35.0	34.4	10.6	–	47.8	4.9	20
LT950PISO20	¹ / ₂	20	M20	14.5	37.8	36.8	14.0	–	50.4	4.9	20
LT975PISO25	³ / ₄	25	M25	14.8	45.5	44.2	18.8	–	56.0	7.8	10
90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT)											
LT938P	³ / ₈	16	¹ / ₂ ”	14.5	35.0	34.4	10.6	–	47.8	4.9	10
LT950P	¹ / ₂	20	¹ / ₂ ”	14.5	37.8	36.8	14.0	–	50.4	4.9	10
LT975P	³ / ₄	25	³ / ₄ ”	14.8	45.5	44.2	18.8	–	56.2	7.8	10
LT9100P	1	32	1”	18.4	53.4	44.2	23.9	–	63.7	12.6	5
LT9125P	1 ¹ / ₄	40	1 ¹ / ₄ ”	19.1	65.1	52.5	31.9	–	72.5	21.3	2
LT9150P	1 ¹ / ₂	50	1 ¹ / ₂ ”	19.5	72.5	63.4	36.9	–	79.9	36.3	2
LT9200P	2	63	2”	20.2	87.2	70.7	47.8	–	93.3	40.8	1
45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT)											
LT438P	³ / ₈	16	¹ / ₂ ”	14.5	–	34.4	10.6	39.0	35.1	4.8	20
LT450P	¹ / ₂	20	¹ / ₂ ”	14.5	–	36.8	14.0	40.4	37.8	5.0	20
LT475P	³ / ₄	25	³ / ₄ ”	14.8	–	44.2	18.8	46.3	45.5	7.4	10
LT4100P	1	32	1”	18.4	–	52.5	23.9	51.7	53.4	11.7	5
LT4125P	1 ¹ / ₄	40	1 ¹ / ₄ ”	19.0	–	43.4	31.9	60.6	65.1	20.9	5
LT4150P	1 ¹ / ₂	50	1 ¹ / ₂ ”	19.5	–	70.7	36.9	66.1	72.5	24.7	2
LT4200P	2	63	2”	20.2	–	85.4	47.8	77.5	87.2	38.1	1

* Dimensions F and G are after assembly (approx.)

Type EFC / LTC / LTC-GY - metallic Bullet fittings

Liquidtight fittings for non-metallic conduits



- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- Separate rotating attachment for easy fitting of conduit
- Spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Delivered with locknut

Technical Information

Conduit type	Shureseal™ conduit type EFC / LTC / LTC-GY
Style	Straight
Thread	NPT and Metric (I.S.O.)
IP rating	IP65
Material	Zinc plated steel
Gland nut	Zinc steel
Insert	Nylon
Colour	Metallic

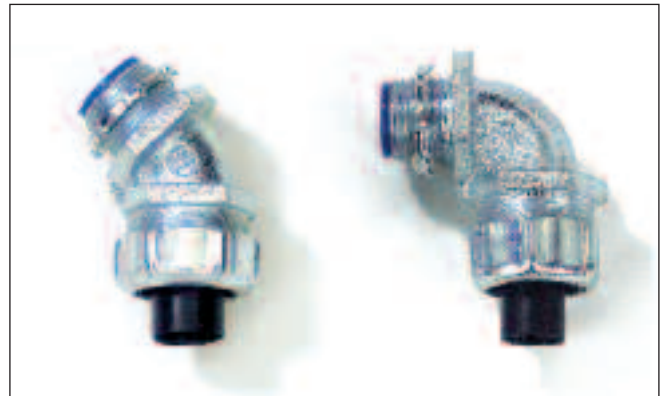
Product Ref.	For conduit size		Thread size E	Dimensions			Weight [kg/100]	Quantity [pieces]
	[inch]	[mm]		A [mm]	B* [mm]	C [mm]		
STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD								
LT38M-ISO20	3/8	16	M20	14.3	38.1	29.4	5.8	25
LT50M-ISO20	1/2	20	M20	14.3	39.7	34.9	7.7	25
LT75M-ISO25	3/4	25	M25	15.9	41.2	42.1	10.9	25
STRAIGHT FITTING WITH NPT THREAD								
LT38M	3/8	16	3/8"	14.3	38.1	29.4	5.8	25
LT50M	1/2	20	1/2"	14.3	39.7	34.9	7.7	25
LT75M	3/4	25	3/4"	15.9	41.2	42.1	10.9	25
LT100M	1	32	1"	19.0	52.4	47.6	16.1	10
LT125M	1 1/4	40	1 1/4"	20.6	63.5	60.3	28.9	5
LT150M	1 1/2	50	1 1/2"	20.6	68.2	69.8	46.7	2
LT200M	2	63	2"	20.6	77.8	88.1	69.9	1

* Dimensions shown with a (*) are after assembly (approx.)

Type EFC / LTC / LTC-GY - metallic Bullet fittings

Liquidtight fittings for non-metallic conduits

- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- Separate rotating attachment for easy fitting of conduit
- Spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Delivered with locknut



Technical Information

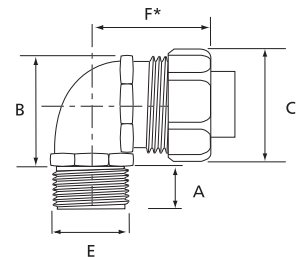
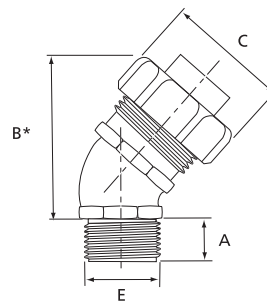
Conduit type	Shureseal™ conduit type EFC / LTC / LTC-GY
Style	45°, 90°
Thread	NPT and Metric (I.S.O.)
IP rating	IP65
Material	Zinc plated steel
Gland nut	Zinc steel
Insert	Nylon
Colour	Metallic



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Product Ref.	For conduit size		Thread size	Dimensions				Weight	Quantity
	[inch]	[mm]	E	A [mm]	B [mm]	C [mm]	F* [mm]	[kg/100]	[pieces]
90° FITTING WITH METRIC (I.S.O.) THREAD									
LT938M-ISO20	3/8	16	M20	15.9	33.3	29.4	34.9	9.4	25
LT950M-ISO20	1/2	20	M20	15.9	36.5	34.9	39.7	13.2	25
LT975M-ISO25	3/4	25	M25	15.9	44.4	42.1	44.4	18.1	25
90° FITTING WITH NPT THREAD									
LT938M	3/8	16	3/8"	15.9	33.3	29.4	34.9	9.4	25
LT950M	1/2	20	1/2"	15.9	36.5	34.9	39.7	13.2	25
LT975M	3/4	25	3/4"	15.9	44.4	42.1	44.4	18.1	25
LT9100M	1	32	1"	20.6	49.2	47.6	55.5	30.2	10
LT9125M	1 1/4	40	1 1/4"	20.6	63.5	60.3	69.8	55.7	5
LT9150M	1 1/2	50	1 1/2"	20.6	71.4	69.8	74.6	76.4	2
LT9200M	2	63	2"	22.2	88.9	88.1	87.3	116.6	1
45° FITTING WITH METRIC (I.S.O.) THREAD									
LT438M-ISO20	3/8	16	M20	14.3	49.8*	29.4	–	7.7	25
LT450M-ISO20	1/2	20	M20	14.3	47.6*	34.9	–	14.2	25
45° FITTING WITH NPT THREAD									
LT438M	3/8	16	3/8"	14.3	49.8*	29.4	–	7.7	25
LT450M	1/2	20	1/2"	14.3	47.6*	34.9	–	14.2	25
LT475M	3/4	25	3/4"	14.3	54.0*	42.1	–	18.6	10
LT4100M	1	32	1"	20.6	57.1*	47.6	–	25.5	5
LT4125M	1 1/4	40	1 1/4"	20.6	69.8*	60.3	–	49.6	5
LT4150M	1 1/2	50	1 1/2"	20.6	69.8*	69.8	–	68.0	2
LT4200M	2	63	2"	22.2	98.4*	88.1	–	99.8	1

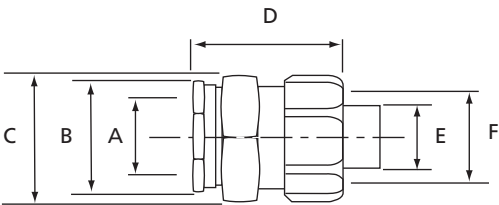
* Dimensions shown with a (*) are after assembly (approx.)

Type EFC / LTC / LTC-GY - metallic Bullet, chase fitting

Liquidtight fittings for non-metallic conduits



- Metallic fitting, designed for type - EFC / LTC / LTC-GY flexible plastic conduit
- Special version (Chase) for space saving assembly, thanks to the male nipple that can be screwed into the female thread of the body
- Liquid-tight, dust-tight and oil-resistant
- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Spiral-shaped EFC conduit coil locks into fitting
- The fitting is composed of 5 components: nipple with insulation throat, O-ring, body, insert and gland nut (Product Ref. LT6275MI also includes an additional sleeve)



Technical Information

Conduit type	Shureseal™ conduit type EFC / LTC / LTC-GY
Style	Straight
IP rating	IP65
Material	Zinc plated steel
Gland nut	Zinc plated steel
Insert	Nylon
O-ring	Neoprene
Colour	Metallic

Product Ref.	For conduit size		ø A*	Dimensions			ø E*	ø F*
	[inch]	[mm]		B across flats [mm]	C across flats [mm]	D approx. [mm]		
LT638MI	3/8	16	14.5	24	30	30	12.4	18.4
LT650MI	1/2	20	14.5	24	30	30	15.4	22.0
LT675MI	3/4	25	18.0	32	36	36	20.0	29.0
LT6100MI	1	32	23.5	40	41	41	26.0	35.0
LT6125MI	1 1/4	40	31.0	45	60	60	34.0	44.5
LT6150MI	1 1/2	50	38.0	54	65	65	39.0	50.0
LT6275MI	-	-	60.0	78	93	125	65.0	70.0

* ø A = inner diameter in fitting
ø E = min. inner diameter of conduit
ø F = max. outer diameter of conduit

Sealing washers

Accessories for liquidtight fittings

- Design locks resilient sealing material in steel
- Steel retainer protects seal from extruding out under torque and limits compression to an optimum predetermined value; provides high quality seal
- Resilient material flows and seals rough surfaces

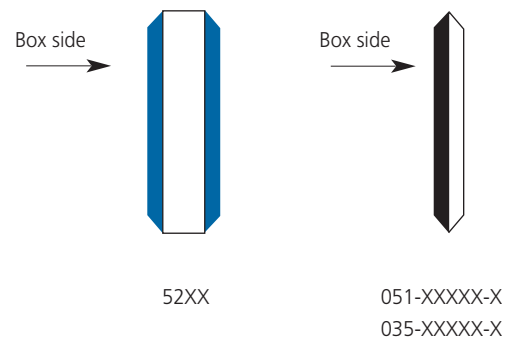
Technical Information

Fitting Type	Shureseal™ and Shureflex® fittings
Thread	NPT, Metric (I.S.O.) and Imperial
Material	Chromated galvanised steel, with blue Buna-N rubber or black synthetic rubber
Colour	Metallic



Product Ref.	Thread size	Weight [kg/100]	Quantity [pieces]
SEALING WASHERS FOR METRIC (I.S.O.) FITTINGS			
051-72123-1*	M16	0.2	100
035-72272-1*	M20	0.2	100
035-72272-2*	M25	0.3	100
035-72272-3*	M32	0.3	100
SEALING WASHERS FOR NPT FITTINGS			
5261*	3/8"	0.2	50
5262	1/2"	0.2	50
5263	3/4"	0.3	25
5264	1"	0.3	25
5265	1 1/4"	1.8	5
5266	1 1/2"	1.9	5
5267	2"	2.0	5
5268	2 1/2"	2.2	5
5269	3"	2.9	5
5270	4"	3.8	5
SEALING WASHERS FOR IMPERIAL FITTINGS			
035-72272-4	1 1/2"	1.8	100

* The Product Ref. with a * are not UL approved



Locknuts

Accessories for liquidtight fittings



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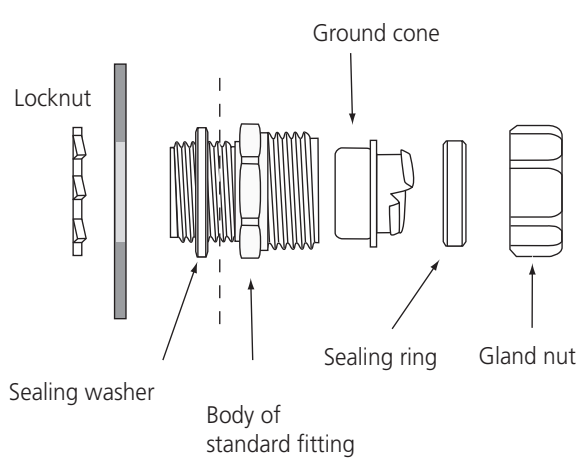


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- **Case-Hardened Locknut with Teeth** provides superior strength and electrical bonding and can be installed without a wrench in the enclosure.

Technical Information

Fitting Type	Shureseal™ fittings
Thread	NPT
Material	Galvanised steel, chromated
Colour	Metallic



Product Ref.	Thread size [inch]	Weight [kg/100]	Quantity [pieces]
139	1/4	0.4	100
140	3/8	0.5	100
141	1/2	0.5	100
142-TB	3/4	0.9	100
143	1	1.8	50
144	1 1/4	3.2	50
145	1 1/2	4.0	50
146-TB	2	6.3	25
147	2 1/2	11.7	15
148	3	18.0	5
149	3 1/2	19.8	5
150	4	23.4	5

Wire mesh adaptor

Accessories for liquidtight fittings

- Strain Relief Wire Mesh adaptor with integrated gland nut
- Simple installation: just replace the existing gland nut in the fitting with the wire mesh adaptor
- Provides a support function (strain relief), to protect the conduit at the point of connection
- Rounded corners ensure secure attachment of the conduit without the risk of damage
- Anti-corrosive

Technical Information

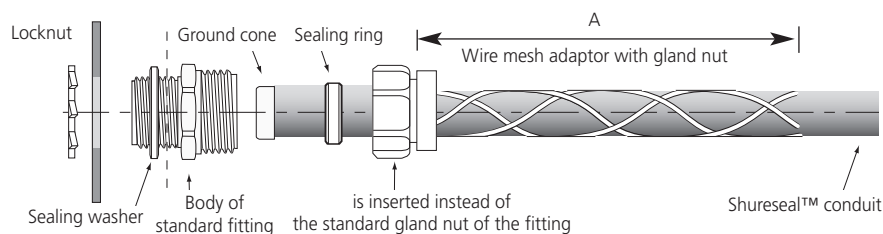
Fitting Type	Shureseal™ liquidtight fittings for metallic conduits (straight, 45°, 90°, chase, female hub)
Thread	Replaces the standard gland nut
Material	Gland nut: zinc plated steel Collar: aluminium, Wire mesh: aluminium
Colour	Metallic



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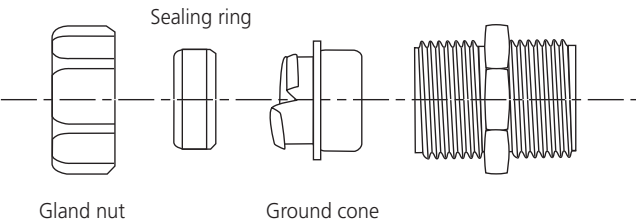
Product Ref.	Conduit size		Straight fitting	45° fitting	90° fitting	Chase fitting	Chase 90° fitting	Adapter	Weight	Quantity
	[inch]	[mm]	[prod. ref.]	[prod. ref.]	[prod. ref.]	[prod. ref.]	[prod. ref.]	[prod. ref.]	[kg/100]	[pieces]
FOR FITTINGS WITH ISO THREAD										
WMG-LT1	$\frac{3}{8}$	16	9360, 9361	9340, 9341	9350, 9351	–	–	9270, 9271	2.5	10
WMG-LT2	$\frac{1}{2}$	20	9362	9342	9352-TB	–	–	9272	4.0	10
WMG-LT3	$\frac{3}{4}$	25	9363	9343-TB	9353-TB	–	–	9273	5.0	10
WMG-LT4	1	32	9364	9344	9354-TB	–	–	9274	10.0	10
FOR FITTINGS WITH PG THREAD										
WMG-LT1	$\frac{3}{8}$	16	7361, 7362	7341, 7342	7351, 7352	–	–	–	2.5	10
WMG-LT2	$\frac{1}{2}$	20	7363	7343	7353	–	–	–	4.0	10
WMG-LT3	$\frac{3}{4}$	25	7364	7344-TB	7354	–	–	–	5.0	10
WMG-LT4	1	32	7365	7345	7355	–	–	–	10.0	10
WMG-LT5	$1 \frac{1}{4}$	40	7366	7346	7356	–	–	–	17.0	2
WMG-LT6	$1 \frac{1}{2}$	50	7367	7347	7357	–	–	–	29.0	2
WMG-LT7	2	63	7368	7348-TB	7358	–	–	–	43.0	5
FOR FITTINGS WITH NPT THREAD										
WMG-LT1	$\frac{3}{8}$	16	5331	5341	5351	5361	5371	5271	2.5	10
WMG-LT2	$\frac{1}{2}$	20	5332	5342	5352	5362	5372	5272	4.0	10
WMG-LT3	$\frac{3}{4}$	25	5333	5343	5353	5363	5373	5273	5.0	10
WMG-LT4	1	32	5334-TB	5344	5354	5364	5374	5274	10.0	10
WMG-LT5	$1 \frac{1}{4}$	40	5335	5345	5355	5365	–	5275	17.0	2
WMG-LT6	$1 \frac{1}{2}$	50	5336	5346	5356	5366	–	5276	29.0	2
WMG-LT7	2	63	5337	5347	5357	5367	–	5277	43.0	5
FOR FITTINGS WITH IMPERIAL THREAD										
WMG-LT5	$1 \frac{1}{4}$	40	6365	–	6355	–	–	–	17.0	2
WMG-LT6	$1 \frac{1}{2}$	50	6366	6346	6356	–	–	–	29.0	2
WMG-LT7	2	63	6367	6347	–	–	–	–	43.0	5

Replacement parts

Accessories for liquidtight fittings



Fitting replacement parts



If after some time the fitting is released and needs to be re-secured, the seal and the ground cone should be replaced.

The following accessories are appropriate for all the standard liquidtight Shureseal™ fittings for metallic conduits:

- **Steel ground cone:** it provides a high quality ground contact with low impedance and high conduit pull-off resistance. The single helical thread on ground cone is easy to install by hand without cross threading. It tolerates variations in conduit diameters and convolution pitch. Its rolled-over edge protects the conductors. Manufactured in zinc plated steel.
- **Sealing ring:** it grips and seals the conduit without damaging the conduit jacket. Its symmetrical shape assures a foolproof assembly. It ensures a positive seal against oils, liquids, moisture and dust. Made from high-performance nylon. Colour: blue.
- **Gland nut:** rugged construction, made of zinc plated steel. Reinforced corners to allow hand screwing.

Ground cone Product Ref.	Sealing ring Product Ref.	Gland nut Product Ref.	Conduit size	
			[inch]	[mm]
R 719124	–	–	1/4	10
IR 719123	7 R68301	7 R68201	5/16	12
R 719101	IR 763101	R 735540	3/8	16
R 719125	IR 763102	R 735503	1/2	20
R 719126	IR 763108	R 735504	3/4	25
R 719127	IR 763104	R 735522	1	32
IR 719128	IR 763105	IR 735509	1 1/4	40
IR 719129	IR 763106	IR 723418	1 1/2	50
053-71814-127	053-71814-137	053-71814-7	2	63
053-71814-128	053-71814-28	053-71814-8	2 1/2	75
053-71814-129	053-71814-29	053-71814-9	3	90
053-71814-130	053-71814-30	053-71814-10	4	115

Type UGS - uncovered conduit

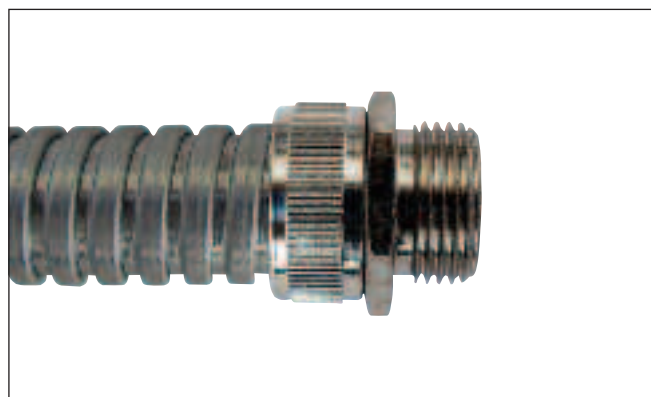
Fittings for ultra-flexible galvanised steel conduit

- Wide choice of fittings especially manufactured for Shureflex® conduits
- Highly crush resistant with an excellent pull-off strength
- Ideal for industrial and commercial applications where flexibility, crush and vibration resistance are required

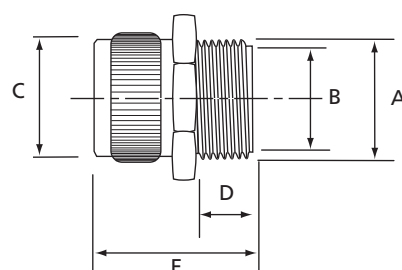
Technical Information

Conduit type	Shureflex® type UGS uncovered conduits*
Style	Straight fixed male
Thread	Metric (I.S.O.) and PG
IP rating	IP40
Material	Nickel-plated brass
Colour	Metallic
Temperature range	-50°C to +300°C

* Can also be used with Shureflex® stainless steel conduits

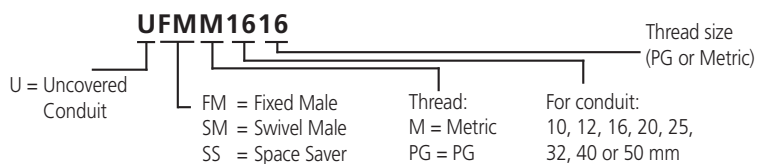


Type UFM



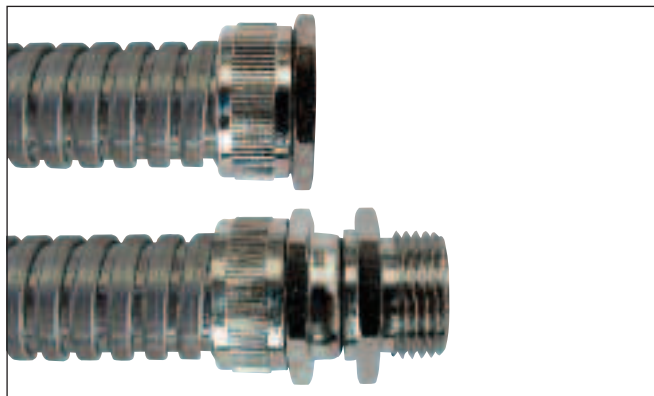
Product Ref.	Conduit type	Thread size	A [mm]	B [mm]	Dimensions C [mm]	D [mm]	E [mm]	Weight [g/100]	Quantity [pieces]
TYPE UFMM: FIXED STRAIGHT FITTING WITH METRIC (I.S.O.) MALE THREAD									
UFMM1616	UGS1610 / UGS1630	M16	16	10.8	19	10	24.5	550	25
UFMM1620	UGS1610 / UGS1630	M20	20	10.8	24	10	24.5	900	25
UFMM2020	UGS2010 / UGS2030	M20	20	14.8	24	10	24.5	700	25
UFMM2525	UGS2510 / UGS2530	M25	25	18.8	30	12	28.0	450	10
UFMM3232	UGS3210 / UGS3220	M32	32	25.8	36	13	29.0	350	5
UFMM4040	UGS4010 / UGS4020	M40	40	33.8	46	15	31.5	450	5
UFMM5050	UGS5010 / UGS5020	M50	50	41.8	55	15	33.0	400	2
TYPE UFMPG: FIXED STRAIGHT FITTING WITH PG MALE THREAD									
UFMPG1007	UGS1010 / UGS1030	PG7	12.5	4.8	14.0	5.0	16.5	271	25
UFMPG1209	UGS1210 / UGS1230	PG9	15.2	7.8	17.0	8.0	21.5	532	25
UFMPG1611	UGS1610 / UGS1630	PG11	18.6	10.9	20.0	12.0	28.0	750	25
UFMPG2016	UGS2010 / UGS2030	PG16	22.5	14.9	24.0	12.0	28.0	1100	25
UFMPG2521	UGS2510 / UGS2530	PG21	28.3	18.9	30.0	13.5	31.0	650	10
UFMPG3229	UGS3210 / UGS3220	PG29	37.0	25.9	40.0	15.0	33.0	350	5
UFMPG4036	UGS4010 / UGS4020	PG36	47.0	33.9	49.6	17.0	36.0	900	5

Product reference structure



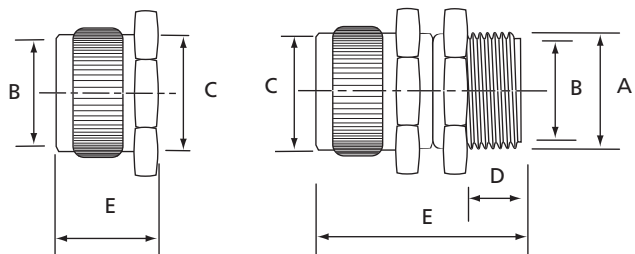
Type UGS - uncovered conduit

Fittings for ultra-flexible galvanised steel conduit



Type USS

Type USM



- Wide choice of fittings especially manufactured for Shureflex® conduits
- Highly crush resistant with an excellent pull-off strength
- Ideal for industrial and commercial applications where flexibility, crush and vibration resistance are required
- The swivel fittings improve the flexibility and decrease the stress in the connection of the conduit
- The space saver version, with its compact design, is perfectly appropriate for applications in confined spaces and to install the fitting directly on a panel

Technical Information

Conduit type	Shureflex® type UGS uncovered conduits*
Style	Straight swivel male and straight space saver
Thread	Metric (I.S.O.) and PG
IP rating	IP40
Material	Nickel-plated brass
Colour	Metallic
Temperature range	-50°C to +300°C

* Can also be used with Shureflex® stainless steel conduits

Product Ref.	Conduit type	Thread size	Dimensions					Weight	Quantity
			A [mm]	B [mm]	C [mm]	D [mm]	E [mm]		
TYPE USMM: SWIVEL STRAIGHT FITTING WITH METRIC (I.S.O.) MALE THREAD									
USMM1616	UGS1610 / UGS1630	M16	16	10.8	19	10	34.3	850	25
USMM2020	UGS2010 / UGS2030	M20	20	14.8	24	10	34.3	1020	25
USMM2525	UGS2510 / UGS2530	M25	25	18.8	30	12	40.5	840	10
USMM3232	UGS3210 / UGS3220	M32	32	25.8	36	13	41.5	850	5
USMM4040	UGS4010 / UGS4020	M40	40	33.8	46	15	47.3	730	5
USMM5050	UGS5010 / UGS5020	M50	50	41.8	55	15	47.0	750	2
TYPE USMPG: SWIVEL STRAIGHT FITTING WITH PG MALE THREAD									
USMPG1007	UGS1010 / UGS1030	PG7	12.5	4.8	14	5	22.0	550	25
USMPG1209	UGS1210 / UGS1230	PG9	15.2	7.8	17	8	30.3	750	25
USMPG1611	UGS1610 / UGS1630	PG11	18.6	10.9	20	12	38.0	1150	25
USMPG2016	UGS2010 / UGS2030	PG16	22.5	14.9	24	12	38.0	1300	25
USMPG2521	UGS2510 / UGS2530	PG21	28.3	18.9	30	12	41.0	1000	10
USMPG3229	UGS3210 / UGS3220	PG29	37.0	25.9	40	15	46.0	800	5
USMPG4036	UGS4010 / UGS4020	PG36	47.0	33.9	49	17	51.0	1250	5
TYPE USSM: SPACE SAVER STRAIGHT FITTING (NO THREAD)									
USSM1010	UGS1010 / UGS1030	–	–	4.8	14	–	11.5	255	25
USSM1212	UGS1210 / UGS1230	–	–	7.8	16	–	13.5	351	25
USSM1616	UGS1610 / UGS1630	–	–	10.8	19	–	14.5	470	25
USSM2020	UGS2010 / UGS2030	–	–	14.8	24	–	14.5	662	25
USSM2525	UGS2510 / UGS2530	–	–	18.8	30	–	16.0	370	10
USSM3232	UGS3210 / UGS3220	–	–	25.8	36	–	16.0	254	5
USSM4040	UGS4010 / UGS4020	–	–	33.8	46	–	16.0	322	5
USSM5050	UGS5010 / UGS5020	–	–	41.8	55	–	18.0	200	2

Type PGS - covered conduit

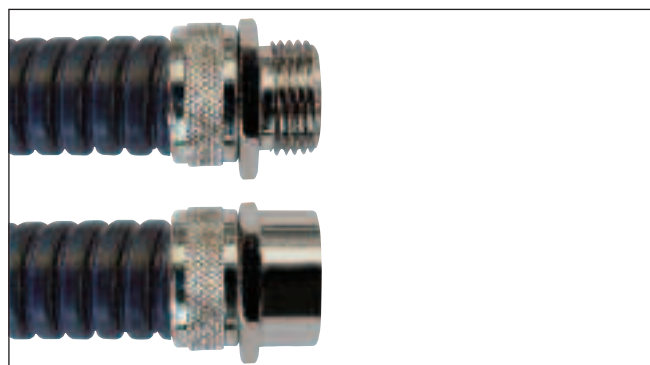
Fittings for ultra-flexible galvanised steel conduit

- Wide choice of fittings especially manufactured for Shureflex® covered conduit
- Highly crush resistant with an excellent pull-off strength
- Improved IP rating (IP54) compared to the uncovered conduit
- Special IP65 rated fittings available on request
- Ideal for industrial and commercial applications where flexibility, crush and vibration resistance are required

Technical Information

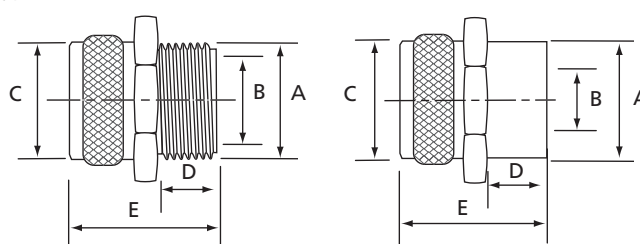
Conduit Type	Shureflex® type PGS covered conduit
Style	Straight fixed male and female
Thread	Metric (I.S.O.) and PG
IP rating	IP54
Material	Nickel-plated brass
Colour	Metallic
Temperature range	-50°C to +300°C*

* PGS conduit temperature -25°C to +70°C



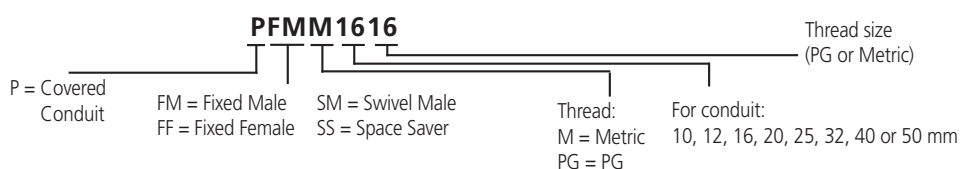
Type PFM

Type PFF



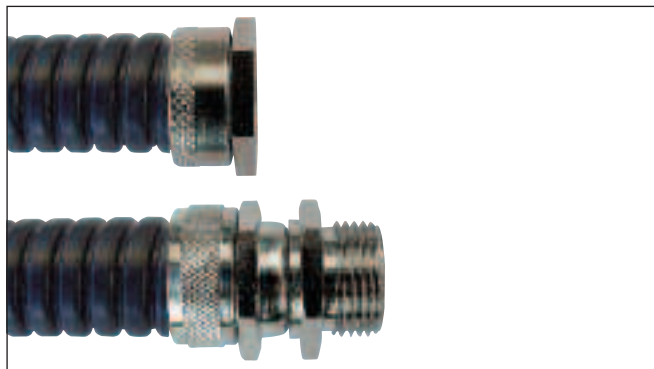
Product Ref.	Conduit type	Thread size	A [mm]	B [mm]	Dimensions C [mm]	D [mm]	E [mm]	Weight [g/100]	Quantity [pieces]
TYPE PFMM: FIXED STRAIGHT FITTING WITH METRIC (I.S.O.) MALE THREAD									
PFMM1616	PGS1610 / PGS1630	M16	16	10.8	19	10	24.5	550	25
PFMM1620	PGS1610 / PGS1630	M20	20	10.8	24	10	24.5	900	25
PFMM2020	PGS2010 / PGS2030	M20	20	14.8	24	10	24.5	700	25
PFMM2525	PGS2510 / PGS2530	M25	25	18.8	30	12	28.0	450	10
PFMM3232	PGS3210 / PGS3220	M32	32	25.8	36	13	29.0	350	5
PFMM4040	PGS4010 / PGS4020	M40	40	33.8	46	15	31.5	450	5
PFMM5050	PGS5010 / PGS5020	M50	50	41.8	55	15	33.0	400	2
TYPE PFMPG: FIXED STRAIGHT FITTING WITH PG MALE THREAD									
PFMPG1007	PGS1010 / PGS1030	PG7	12.5	4.8	14.0	8.0	16.5	270	25
PFMPG1209	PGS1210 / PGS1230	PG9	15.2	7.8	17.0	8.0	21.5	483	25
PFMPG1611	PGS1610 / PGS1630	PG11	18.6	10.9	20.0	12.0	28.0	550	25
PFMPG2016	PGS2010 / PGS2030	PG16	22.5	14.9	24.0	12.0	28.0	1050	25
PFMPG2521	PGS2510 / PGS2530	PG21	28.3	18.9	30.0	13.5	31.0	650	10
PFMPG3229	PGS3210 / PGS3220	PG29	37.0	25.9	40.0	15.0	33.0	1150	5
PFMPG4036	PGS4010 / PGS4020	PG36	47.0	33.9	49.6	17.0	36.0	450	5
TYPE PFFM: FIXED STRAIGHT FITTING WITH METRIC (I.S.O.) FEMALE THREAD									
PFFM1616	PGS1610 / PGS1630	M16	16	10.8	19	10	23.5	552	25
PFFM2020	PGS2010 / PGS2030	M20	20	14.8	24	10	23.5	765	25
PFFM2525	PGS2510 / PGS2530	M25	25	18.8	30	12	28.0	511	10
PFFM3232	PGS3210 / PGS3220	M32	32	25.8	36	13	28.0	292	5
PFFM4040	PGS4010 / PGS4020	M40	40	33.8	46	15	30.5	535	5
TYPE PFFPG: FIXED STRAIGHT FITTING WITH PG FEMALE THREAD									
PFFPG1209	PGS1210 / PGS1230	PG9	15.2	7.8	19	8	20.5	389	25

Product reference Structure



Type PGS - covered conduit

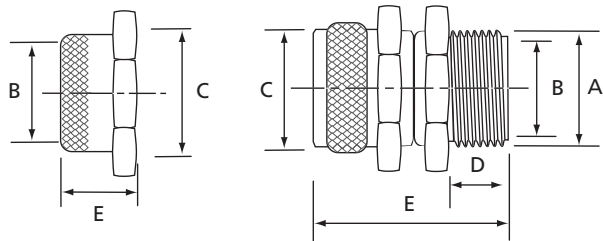
Fittings for ultra-flexible galvanised steel conduit



- Wide choice of fittings especially manufactured for Shureflex® covered conduit
- Highly crush resistant with an excellent pull-off strength
- Improved IP rating (IP54) compared to the uncovered conduit
- Special IP65 rated fittings available on request
- Ideal for industrial and commercial applications where flexibility, crush and vibration resistance are required
- The swivel fittings improve the flexibility and decrease the stress in the connection of the conduit
- The space saver version, with its compact design, is perfectly appropriate for applications in confined spaces and to install the fitting directly on a panel

Type PSS

Type PSM



Technical Information

Conduit Type	Shureflex® type PGS covered conduit
Style	Straight swivel male, straight space saver
Thread	Metric (I.S.O.) and PG
IP rating	IP54
Material	Nickel-plated brass
Colour	Metallic
Temperature range	-50°C to +300°C*

* PGS conduit temperature -25°C to +70°C

Product Ref.	Conduit type	Thread size	Dimensions					Weight [g/100]	Quantity [pieces]
			A [mm]	B [mm]	C [mm]	D [mm]	E [mm]		
TYPE PSMM: SWIVEL STRAIGHT FITTING WITH METRIC (I.S.O.) MALE THREAD									
PSMM1616	PGS1610 / PGS1630	M16	16	10.8	19	10	34.3	860	25
PSMM2020	PGS2010 / PGS2030	M20	20	14.8	24	10	34.3	1060	25
PSMM2525	PGS2510 / PGS2530	M25	25	18.8	30	12	40.5	850	10
PSMM3232	PGS3210 / PGS3220	M32	32	25.8	36	13	41.5	800	5
PSMM4040	PGS4010 / PGS4020	M40	40	33.8	46	15	47.3	850	5
PSMM5050	PGS5010 / PGS5020	M50	50	41.8	55	15	47.0	700	2
TYPE PSMPG: SWIVEL STRAIGHT FITTING WITH PG MALE THREAD									
PSMPG1007	PGS1010 / PGS1030	PG7	12.5	4.8	14.0	8	22.0	280	25
PSMPG1209	PGS1210 / PGS1230	PG9	15.2	7.8	17.0	8	30.3	550	25
PSMPG1611	PGS1610 / PGS1630	PG11	18.6	10.9	20.0	12	38.0	1100	25
PSMPG2016	PGS2010 / PGS2030	PG16	22.5	14.9	24.0	12	38.0	1300	25
PSMPG2521	PGS2510 / PGS2530	PG21	28.3	18.9	30.0	12	41.0	950	10
PSMPG3229	PGS3210 / PGS3220	PG29	37.0	25.9	40.0	15	46.0	750	5
PSMPG4036	PGS4010 / PGS4020	PG36	47.0	33.9	49.6	17	51.0	850	5
TYPE PSSM: SPACE SAVER STRAIGHT FITTING (NO THREAD)									
PSSM1010	PGS1010 / PGS1030	–	–	4.8	14	–	11.5	203	25
PSSM1212	PGS1210 / PGS1230	–	–	7.8	16	–	13.5	296	25
PSSM1616	PGS1610 / PGS1630	–	–	10.8	19	–	14.5	405	25
PSSM2020	PGS2010 / PGS2030	–	–	14.8	24	–	14.5	560	25
PSSM2525	PGS2510 / PGS2530	–	–	18.8	30	–	16.0	350	10
PSSM3232	PGS3210 / PGS3220	–	–	25.8	36	–	16.0	240	5
PSSM4040	PGS4010 / PGS4020	–	–	33.8	46	–	16.0	382	5
PSSM5050	PGS5010 / PGS5020	–	–	41.8	55	–	18.0	213	2

Product description

Fittings for ultra-flexible nylon conduits

"One piece assembly" fitting, no loose piece, handy to use, requires no tool

Twelve flat edges, for easy tightening

Solid construction: robust design, shock resistant and high quality material (Halogen free Polyamide 6), for a durable performance

Conduit size marking on the fitting, for immediate identification

Six flat edges, for spanner tightening

Thread style/size marking, for immediate identification

Optional O-ring and sealing washer, for IP69K rating

Range of accessories: locknuts for panel mounting, mounting brackets for attaching the conduits, T-splits for connecting 3 conduits together

Three grades of Halogen free flexible conduits, available in 8 sizes, with an excellent combination of flexibility and mechanical strength

Release ring, for easy removal without any tool

Self-locking (push-fit): mounting and locking at the same time, for a quick and easy installation

After mounting, the fitting can rotate freely on the conduit, allowing the possibility to pre-mount the straight fittings on the conduits before the final installation on the support (without causing the cables to be twisted)

Crown of self-locking clips around the whole circumference of the conduit, for a secure locking and a superior pull-off strength

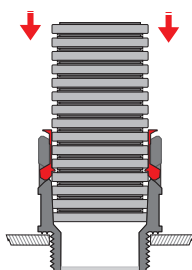
Tapered fitting body, providing a standard IP66 watertight system, without the need for any additional accessory

Broad contact base, with 2 built-in sealing rings

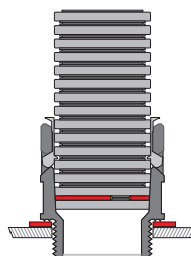
Available in straight, 90° and 45° versions, with Metric (I.S.O.) and PG threads

One push and you're ready

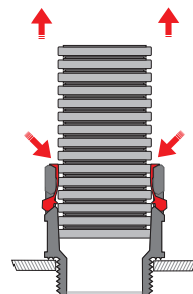
Installation with IP66 protection



Installation with IP69K protection

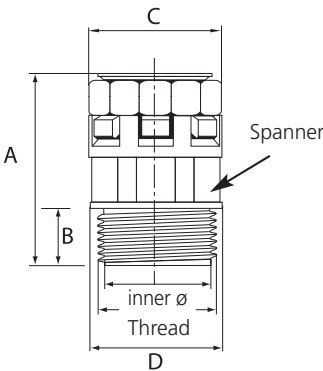
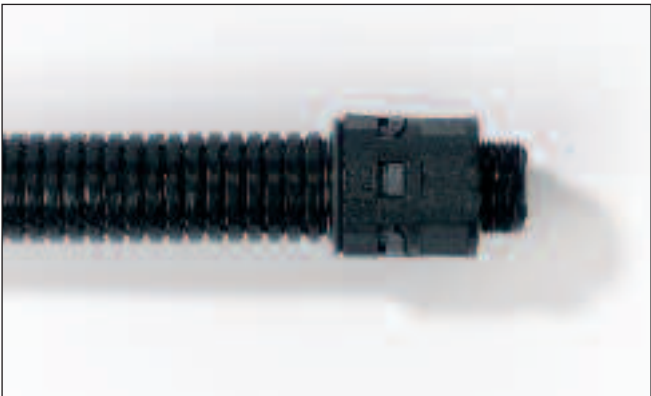


Easily released & removed



- Self-locking (push-fit) installation: simply push the conduit completely into the fitting. Mounting and locking the fitting are done simultaneously
- Optional sealing washer can be used (placed around the thread of the fitting), in combination with an optional O-ring (inserted in the first groove of the conduit)
- Just press the release ring of the fitting and pull the conduit out. No tool is required!

Straight fittings
Fittings for ultra-flexible nylon conduits



- High quality Polyamide (PA6)
- UV and shock resistant
- Secure: self-locking (push-fit) installation onto the conduit
- Quick and easy to install and remove, no tool required
- Strong: high pull-off strength thanks to the self-locking clips around the whole circumference of the conduit
- Handy: “one-piece assembly” construction, no loose parts
- Watertight: IP66 rating as standard, without additional accessories
- Sealing washers and O-rings available (delivered separately) for the applications requiring a maximum IP rating (IP69K)
- Locknuts (delivered separately) are available for installations on panels and enclosures

Technical Information

Conduit type	Shureflex® Nylon conduits
Style / thread	Straight / Metric (I.S.O.), PG thread
IP rating	IP66 (standard), IP69K (with additional Shureflex® washer and O-ring)
Material	Polyamide 6
Colour	Black
Temperature range	-30°C to +100°C (intermittent: to +150°C)
Flammability rating	UL 94 V-2 (produced from UL 94 V-0 raw material)
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant. Good resistance to fuel, mineral oils, greases and diluted bases

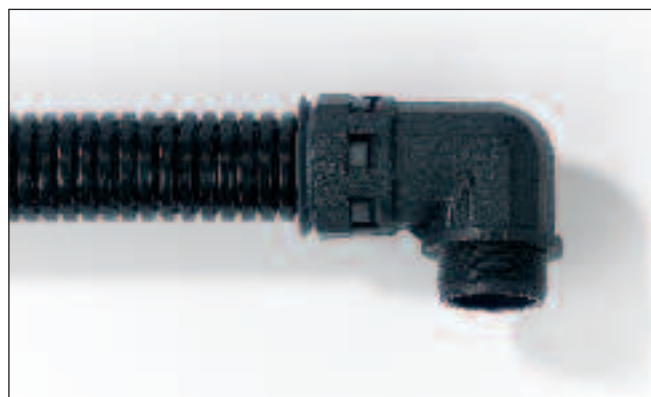
Product Ref.	For conduit size [mm]	Thread size	Inner diameter [mm]	A [mm]	Dimensions B [mm]	C [mm]	D [mm]	Spanner size [mm]	Weight [kg/100]	Quantity [pieces]
STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD										
NY-SF07-BKM12	7	M12 x 1.5	6.5	35.0	11.0	19.0	17.0	15	0.4	100
NY-SF10-BKM16	10	M16 x 1.5	10.0	37.0	11.0	21.0	21.0	18	0.6	100
NY-SF12-BKM16	12	M16 x 1.5	10.0	37.0	11.0	26.0	25.5	20	0.7	100
NY-SF12-BKM20	12	M20 x 1.5	14.0	37.0	11.0	31.0	25.5	20	0.8	100
NY-SF17-BKM20	17	M20 x 1.5	14.5	44.0	11.0	31.0	30.0	27	1.2	100
NY-SF23-BKM25	23	M25 x 1.5	18.5	48.0	12.0	37.0	37.0	34	1.6	50
NY-SF29-BKM32	29	M32 x 1.5	25.5	52.0	15.0	46.0	46.0	42	2.8	30
NY-SF36-BKM40	36	M40 x 1.5	32.0	60.0	19.0	54.0	54.0	50	3.9	20
NY-SF48-BKM50	48	M50 x 1.5	42.0	61.0	19.0	69.0	69.0	66	6.2	10
STRAIGHT FITTING WITH PG THREAD										
NY-SF07-BKPG7	7	PG7	8.0	35.5	11.5	19.0	17.0	15	0.4	100
NY-SF10-BKPG9	10	PG9	10.3	37.5	11.5	21.0	21.0	18	0.6	100
NY-SF12-BKPG11	12	PG11	14.0	37.5	11.5	26.0	25.5	20	0.8	100
NY-SF17-BKPG13	17	PG13.5	14.0	44.5	11.5	31.0	28.0	27	1.2	100
NY-SF17-BKPG16	17	PG16	17.0	44.5	11.5	31.0	29.0	27	1.2	100
NY-SF23-BKPG21	23	PG21	22.0	48.5	12.5	37.0	36.5	34	1.6	50
NY-SF29-BKPG29	29	PG29	30.0	49.5	12.5	46.0	46.0	42	2.8	30
NY-SF36-BKPG36	36	PG36	37.5	55.0	14.0	54.0	56.0	50	3.9	20
NY-SF48-BKPG48	48	PG48	50.0	56.0	14.0	69.0	69.5	66	5.6	10

See pages 322 to 325 for locknuts and accessories

90° fittings

Fittings for ultra-flexible nylon conduits

- High quality Polyamide (PA6)
- UV and shock resistant
- Secure: self-locking (push-fit) installation onto the conduit
- Quick and easy to install and remove, no tool required
- Strong: high pull-off strength thanks to the self-locking clips around the whole circumference of the conduit
- Handy: "one-piece assembly" construction, no loose parts
- Watertight: IP66 rating as standard, without additional accessories
- Sealing washers and O-rings available (delivered separately) for the applications requiring a maximum IP rating (IP69K)
- Locknuts (delivered separately) are available for installations on panels and enclosures

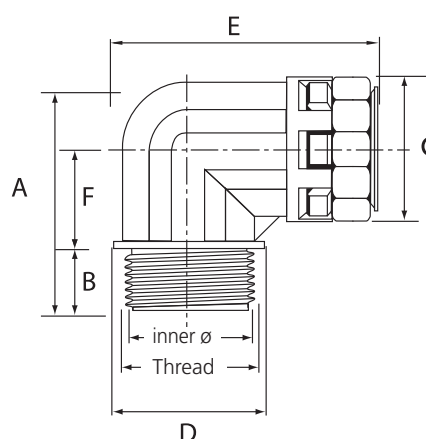


Technical Information

Conduit type	Shureflex® Nylon conduits
Style / thread	90° / Metric (I.S.O.), PG thread
IP rating	IP66 (standard), IP69K (with additional Shureflex® washer and O-ring)
Material	Polyamide 6
Colour	Black
Temperature range	-30°C to +100°C (intermittent: to +150°C)
Flammability rating	UL 94 V-2 (produced from UL 94 V-0 raw material)
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant. Good resistance to fuel, mineral oils, greases and diluted bases



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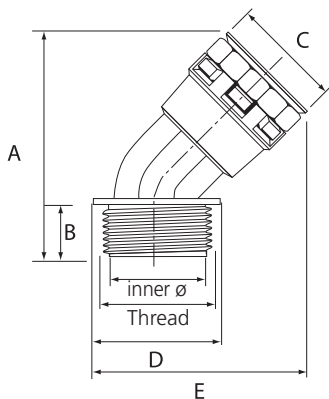


Product Ref.	For conduit size [mm]	Thread size	Inner diameter [mm]	A [mm]	B [mm]	Dimensions		E [mm]	F [mm]	Weight [kg/100]	Quantity [pieces]
						C [mm]	D [mm]				
90° FITTING WITH METRIC (I.S.O.) THREAD											
NY-90F10-BKM16	10	M16 x 1.5	10.0	35.0	11.0	21.0	21.0	42.5	11.0	0.9	50
NY-90F12-BKM16	12	M16 x 1.5	10.5	39.0	11.0	25.0	23.0	44.0	15.0	1.3	50
NY-90F12-BKM20	12	M20 x 1.5	12.3	39.0	11.0	25.0	26.0	45.5	15.0	1.3	50
NY-90F17-BKM20	17	M20 x 1.5	14.5	45.0	11.0	30.0	30.0	58.0	18.0	2.2	50
NY-90F23-BKM25	23	M25 x 1.5	18.5	53.0	12.0	36.5	37.0	66.0	23.0	3.4	30
NY-90F29-BKM32	29	M32 x 1.5	25.5	66.0	15.0	45.0	46.0	76.0	27.0	5.5	20
NY-90F36-BKM40	36	M40 x 1.5	32.0	79.0	19.0	54.0	55.0	89.0	33.0	9.2	10
NY-90F48-BKM50	48	M50 x 1.5	42.0	92.0	19.0	68.0	69.0	103.0	39.0	15.0	10
90° FITTING WITH PG THREAD											
NY-90F10-BKPG9	10	PG9	10.3	35.0	11.5	21.0	21.5	42.5	11.0	0.8	50
NY-90F12-BKPG11	12	PG11	14.0	39.0	11.5	25.0	25.0	45.0	15.0	1.1	50
NY-90F17-BKPG13	17	PG13.5	14.0	45.0	11.5	30.0	27.0	56.5	18.0	2.2	50
NY-90F17-BKPG16	17	PG16	17.0	45.0	11.5	30.0	29.0	57.5	18.0	1.9	50
NY-90F23-BKPG21	23	PG21	22.0	53.0	12.5	37.0	36.5	65.5	23.0	3.0	30
NY-90F29-BKPG29	29	PG29	30.0	65.0	12.5	45.0	46.0	76.0	28.0	4.6	20
NY-90F36-BKPG36	36	PG36	37.5	79.0	14.0	54.0	56.0	89.5	33.0	7.5	10
NY-90F48-BKPG48	48	PG48	50.0	92.0	14.0	68.0	69.5	103.5	39.0	11.7	10

See pages 322 to 325 for locknuts and accessories

45° fittings

Fittings for ultra-flexible nylon conduits



- High quality Polyamide (PA6)
- UV and shock resistant
- Secure: self-locking (push-fit) installation onto the conduit
- Quick and easy to install and remove, no tool required
- Strong: high pull-off strength thanks to the self-locking clips around the whole circumference of the conduit
- Handy: “one-piece assembly” construction, no loose parts
- Watertight: IP66 rating as standard, without additional accessories
- Sealing washers and O-rings available (delivered separately) for the applications requiring a maximum IP rating (IP69K)
- Locknuts (delivered separately) are available for installations on panels and enclosures

Technical Information

Conduit type	Shureflex® Nylon conduits
Style / thread	45° / Metric (I.S.O.), PG thread
IP rating	IP66 (standard), IP69K (with additional Shureflex® washer and O-ring)
Material	Polyamide 6
Colour	Black
Temperature range	-30°C to +100°C (intermittent: to +150°C)
Flammability rating	UL 94 V-2 (produced from UL 94 V-0 raw material)
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant. Good resistance to fuel, mineral oils, greases and diluted bases

Product Ref.	For conduit size [mm]	Thread size	Inner diameter [mm]	A [mm]	B [mm]	Dimensions C [mm]	D [mm]	E [mm]	Weight [kg/100]	Quantity [pieces]
45° FITTING WITH METRIC METRIC (I.S.O.) THREAD										
NY-45F12-BKM16	12	M16 x 1.5	10.5	50.0	11.0	24.0	23.0	45.0	0.9	50
NY-45F17-BKM20	17	M20 x 1.5	11.5	60.0	11.0	29.0	27.0	56.0	1.4	50
NY-45F23-BKM25	23	M25 x 1.5	18.5	70.0	12.0	37.0	34.0	67.0	2.2	30
NY-45F29-BKM32	29	M32 x 1.5	25.7	80.0	15.0	45.0	41.0	76.0	3.6	10
NY-45F36-BKM40	36	M40 x 1.5	32.0	96.0	19.0	53.0	50.0	90.0	5.4	10
NY-45F48-BKM50	48	M50 x 1.5	42.0	109.0	19.0	67.0	60.0	106.0	8.4	5
45° FITTING WITH PG THREAD										
NY-45F12-BKPG11	12	PG11	11.5	50.0	11.0	24.0	26.0	47.0	0.9	50
NY-45F17-BKPG16	17	PG16	14.7	60.0	11.0	29.0	30.0	58.0	1.5	50
NY-45F23-BKPG21	23	PG21	18.5	69.0	11.0	37.0	37.0	69.0	2.2	30
NY-45F29-BKPG29	29	PG29	25.5	78.0	12.0	45.0	46.0	79.0	3.7	10
NY-45F36-BKPG36	36	PG36	32.0	90.0	13.0	53.0	56.0	94.0	5.5	10
NY-45F48-BKPG48	48	PG48	42.0	102.0	13.0	67.0	69.0	112.0	8.8	5

See pages 322 to 325 for locknuts and accessories

T-splits

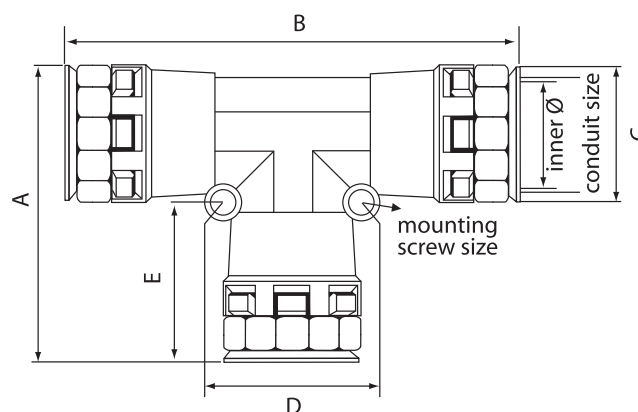
Fittings for ultra-flexible nylon conduits

- High quality Polyamide (PA6)
- UV and shock resistant
- Secure: self-locking (push-fit) installation onto the conduit
- Quick and easy to install and remove, no tool required
- Strong: high pull-off strength thanks to the self-locking clips around the whole circumference of the conduit
- Handy: "one-piece assembly" construction, no loose parts
- Watertight: IP66 rating as standard, without additional accessories
- O-rings are available (delivered separately) for the applications requiring a maximum IP rating (IP69K)
- Can be used with all the types of Shureflex® ultra-flexible nylon conduits, from 10 mm to 36 mm nominal sizes



Technical Information

Conduit type	Shureflex® Nylon conduits
Style	T-split
IP rating	IP66 (standard) IP69K (with additional Shureflex® O-ring)
Material	Polyamide 6
Colour	Black
Temperature range	-30°C to +100°C (intermittent: to +150°C)
Flammability rating	UL 94 V-2 (produced from UL 94 V-0 raw material)
Other properties	Halogen, Phosphor and Cadmium free, UV-resistant. Good resistance to fuel, mineral oils, greases and diluted bases



Product Ref.	For conduit size [mm]	Thread size	Inner diameter [mm]	A [mm]	B [mm]	Dimensions C [mm]	D [mm]	E [mm]	Weight [kg/100]	Quantity [pieces]
NY-T10-BK	10 (3x)	M4 (2x)	11.2 (3x)	46.0	72.0	20.0 (3x)	19.0	27.0	1.5	20
NY-T12-BK	12 (3x)	M4 (2x)	12.8 (3x)	52.0	81.0	23.5 (3x)	20.5	30.0	2.1	20
NY-T17-BK	17 (3x)	M5 (2x)	18.0 (3x)	63.0	96.0	29.0 (3x)	28.0	35.0	3.4	20
NY-T23-BK	23 (3x)	M5 (2x)	25.5 (3x)	76.0	117.0	37.0 (3x)	36.0	40.0	5.3	10
NY-T29-BK	29 (3x)	M5 (2x)	31.5 (3x)	85.0	128.0	45.0 (3x)	41.5	41.0	8.6	5
NY-T36-BK	36 (3x)	M6 (2x)	38.5 (3x)	97.0	144.0	53.0 (3x)	50.5	46.0	11.7	5

See pages 322 to 325 for accessories

Sealing washers

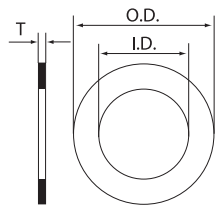
Accessories for nylon conduit and fittings



- To be placed around the thread of the Shureflex® Nylon fitting, between the fitting and the entry panel

Technical Information

Fitting type	Shureflex® Nylon fittings
Material	Deformable, asbestos free material
Colour	Blue
Temperature range	-40°C to +200°C



Product Ref.	Thread size	Inner diameter I.D. [mm]	Outer diameter O.D. [mm]	Thickness T [mm]	Weight [kg/100]	Quantity [pieces]
SEALING WASHERS FOR METRIC (I.S.O.) THREAD						
NY-SW-M12	M12	12	18	1.5	0.04	100
NY-SW-M16	M16	16	22	1.5	0.05	100
NY-SW-M20	M20	20	27	1.5	0.07	100
NY-SW-M25	M25	25	35	1.5	0.14	50
NY-SW-M32	M32	32	43	1.5	0.19	30
NY-SW-M40	M40	40	55	1.5	0.34	20
NY-SW-M50	M50	50	69	1.5	0.50	10
SEALING WASHERS FOR PG THREAD						
NY-SW-PG7	PG7	12.4	18	1.5	0.04	100
NY-SW-PG9	PG9	15.2	21	1.5	0.04	100
NY-SW-PG11	PG11	18.6	26	1.5	0.07	100
NY-SW-PG13	PG13.5	20.4	29	1.5	0.09	100
NY-SW-PG16	PG16	22.5	33	1.5	0.13	100
NY-SW-PG21	PG21	28.3	39	1.5	0.29	50
NY-SW-PG29	PG29	37.0	49	1.5	0.34	30
NY-SW-PG36	PG36	47.0	59	1.5	0.25	20
NY-SW-PG48	PG48	59.3	71	1.5	0.30	10

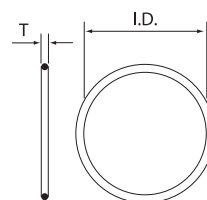
O-rings

Accessories for nylon conduit and fittings

- To be inserted in the first groove of the Shureflex® Nylon conduit, prior to the insertion of the conduit into the fitting

Technical Information

Conduit type	Shureflex® Nylon conduits
Material	NBR70 elastomer
Colour	Black
Temperature range	-30°C to +100°C



Product Ref.	Conduit size [mm]	Inner diameter I.D. [mm]	Diameter T [mm]	Weight [kg/100]	Quantity [pieces]
NY-OR-07	7	6.35	1.27	0.004	100
NY-OR-10	10	10.00	1.30	0.011	100
NY-OR-12	12	11.50	1.50	0.013	100
NY-OR-17	17	16.00	1.80	0.022	100
NY-OR-23	23	22.00	2.00	0.037	50
NY-OR-29	29	29.00	2.00	0.036	30
NY-OR-36	36	34.00	2.30	0.073	20
NY-OR-48	48	44.60	2.40	0.110	10

Hexagonal locknuts

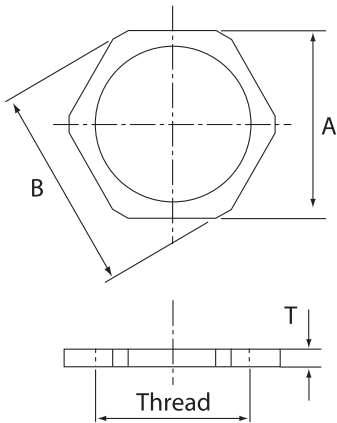
Accessories for nylon conduit and fittings



- For mounting the Shureflex® Nylon fittings on panels and enclosures
- High quality Polyamide (PA6)
- Shock resistant
- Thread style and thread size marked on the locknut for immediate identification
- Good resistance to mineral oils, greases and fuel

Technical Information

Fitting type	Shureflex® Nylon fittings
Thread	Metric (I.S.O.), PG
Material	Polyamide 6
Colour	Black
Temperature range	-30°C to +100°C
Flammability rating	UL 94 V-2
Other properties	Halogen, Phosphor and Cadmium free



Product Ref.	Thread size	A - spanner size [mm]	Dimensions B - Across corner [mm]	T - thickness [mm]	Weight [kg/100]	Quantity [pieces]
LOCKNUT WITH METRIC (I.S.O.) THREAD						
NY-LNBK-M12	M12	17	18.0	5	0.09	100
NY-LNBK-M16	M16	22	24.0	5	0.14	100
NY-LNBK-M20	M20	26	28.0	6	0.20	100
NY-LNBK-M25	M25	32	35.0	6	0.30	100
NY-LNBK-M32	M32	42	47.0	7	0.60	100
NY-LNBK-M40	M40	52	57.5	7	0.88	50
NY-LNBK-M50	M50	62	68.0	9	1.66	50
LOCKNUT WITH PG THREAD						
NY-LNBK-PG7	PG7	15	16.5	4.5	0.05	100
NY-LNBK-PG9	PG9	19	20.9	4.5	0.11	100
NY-LNBK-PG11	PG11	22	24.2	5.0	0.12	100
NY-LNBK-PG13	PG13.5	24	26.4	5.5	0.17	100
NY-LNBK-PG16	PG16	27	29.7	6.0	0.25	100
NY-LNBK-PG21	PG21	32	35.2	6.5	0.29	100
NY-LNBK-PG29	PG29	41	45.1	7.5	0.48	50
NY-LNBK-PG36	PG36	54	59.4	9.0	0.79	20
NY-LNBK-PG48	PG48	67	73.7	9.5	1.16	1

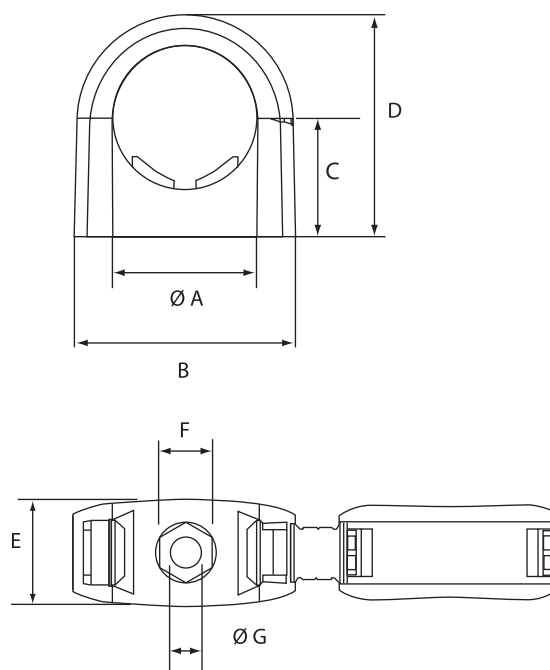
Mounting brackets

Accessories for nylon conduit and fittings

- A range of mounting brackets for quickly and easily attaching the Shureflex® Nylon conduits to existing equipment
- Screw mounted (with 1 screw) for secure installation
- Quick installation: the cover is just snapped after inserting the conduit
- The conduits can rotate freely in the mounting bracket
- Releasable and re-usable
- Resistant to UV, to oils, greases, fuels, cleaning fluids and synthetic fluids

Technical Information

Conduit type	Shureflex® Nylon conduits
Material	Polyamide 6.6
Colour	Black
Temperature range	-40°C to +120°C (intermittent: to +150°C)
Other properties	Halogen free, UV resistant



Product Ref.	Conduit size A [mm]	B [mm]	C [mm]	Dimensions D [mm]	E [mm]	F [mm]	ØG Installation hole [mm]	Weight [g/piece]	Quantity [pieces]
NY-MB-07	7	22.6	12.9	23.3	11.6	7.5	4.2	1.9	10
NY-MB-10	10	22.6	12.9	23.3	11.6	7.5	4.2	1.7	10
NY-MB-12	12	26.7	15.1	26.9	13.7	8.8	5.1	2.6	10
NY-MB-17	17	33.8	19.5	34.9	17.5	10.4	6.1	4.8	10
NY-MB-23	23	43.8	23.4	43.7	20.7	10.3	6.1	8.6	10
NY-MB-29	29	52.8	26.9	51.6	23.2	10.2	6.2	12.7	10
NY-MB-36	36	64.5	32.4	62.5	27.0	10.2	6.2	19.5	5
NY-MB-48	48	81.0	38.5	77.0	32.1	10.2	6.2	34.7	5

Metallic fittings for threadless conduits

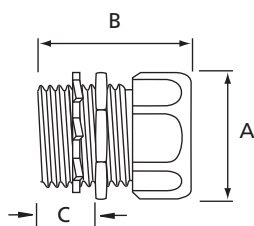
Rigid and intermediate metal conduit fittings



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- Makes a permanent connection and eliminates the need for cutting a thread on the rigid conduit.
- A split steel ring with diagonal serrations grips the conduit and bites into it for positive ground.
- Insulation helps to guarantee continuity of service with protection of the conductor at the critical point: the bushing
- Available in 2 versions, with or without nylon insert
- Components: gland nut, steel ring, steel spacer (only for sizes up to 1 inch), body (with or without insert), locknut

Technical Information

Conduit Type	Metallic rigid conduits
Style	Straight
Thread	NPT (up to 1") or NPS (larger than 1")
Material	Zinc plated steel or malleable iron
Gland nut	Zinc plated steel (up to 1") or malleable iron (larger sizes)
Locknut	Zinc plated steel
Insert	Nylon

Product Ref. insulated	Product Ref. non-insulated	For conduit size [inch]	Thread size	A [mm]	Dimensions B [mm]	C [mm]	Weight insulated [kg/100]	Weight non-insulated [kg/100]	Quantity insulated [pieces]	Quantity non-insulated [pieces]
8123	8121	1/2	1/2" NPT	31.0	42.9	38.1	9.1	9.5	10	25
8223	8221	3/4	3/4" NPT	38.9	44.5	38.1	12.0	11.7	10	25
8323	8321	1	1" NPT	48.4	50.8	14.3	18.1	18.0	5	5
8423	8421	1 1/4	1 1/4" NPS	34.9	61.9	27.0	36.3	34.7	5	5
8523	8521	1 1/2	1 1/2" NPS	68.3	66.7	19.1	40.8	48.8	2	2
8623	8621	2	2" NPS	82.6	71.4	21.4	72.6	71.2	2	2
8723-TB	8721	2 1/2	2 1/2" NPS	104.8	96.8	28.6	154.2	160.6	2	2
8823-TB	8821	3	3" NPS	123.8	101.6	13.5	181.4	195.0	1	1
8853	8851	3 1/2	3 1/2" NPS	139.7	104.8	28.6	220.0	226.8	1	1
8973	8971	4	4" NPS	153.2	123.8	28.6	275.0	283.5	1	1

Note: insulated version also available in right angled (elbow) style up to 2"

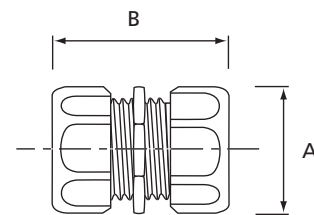
Metallic couplings for threadless conduits

Rigid and intermediate metal conduit fittings

- Easy coupling between 2 rigid conduits
- Eliminates the need for cutting a thread on the rigid conduits
- When tightened with a wrench, they form a UL listed and CSA approved concrete-tight connection
- Components: 2 gland nuts, steel ring, steel spacer (only for sizes up to 1 inch), body

Technical Information

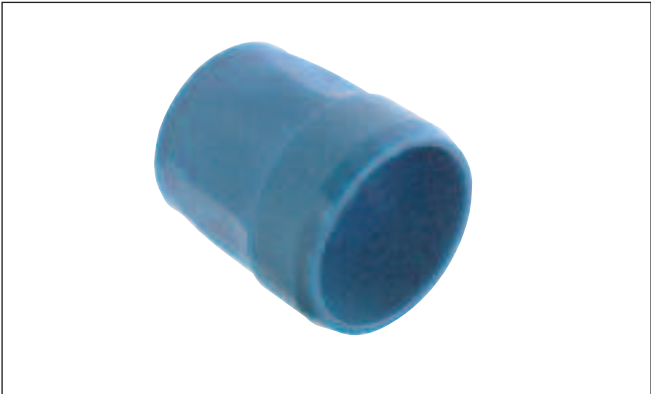
Conduit Type	Metallic rigid conduits
Style	Straight
Material	Zinc plated malleable iron or steel
Gland nut	Zinc plated steel (up to 1") or malleable iron (larger sizes)



Product Ref.	For conduit size [inch]	Dimensions		Weight [kg/100]	Quantity [pieces]
		A [mm]	B [mm]		
8120	1/2	32.5	50.8	8.2	25
8220	3/4	40.5	58.7	14.6	25
8320	1	47.6	68.3	22.2	5
8420	1 1/4	60.3	71.4	54.0	5
8520	1 1/2	66.7	92.1	68.5	2
8620	2	82.6	96.8	98.9	2
8720	2 1/2	100.0	136.5	227.7	2
8820	3	119.1	139.7	258.6	1
8850	3 1/2	131.8	139.7	317.5	1
8970	4	144.5	139.7	378.8	1

Plastic bushing

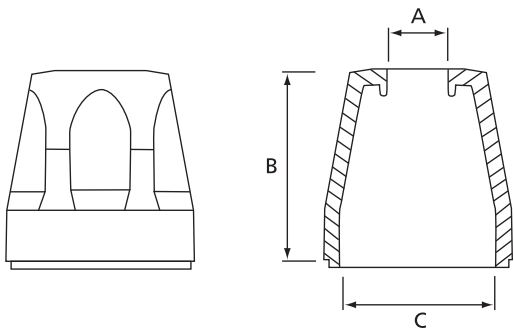
Rigid and intermediate metal conduit fittings



- For threadless rigid conduits and intermediate metal conduits
- When assembled to the end of a threadless conduit, provides a well rounded insulating surface over which conductors may be pulled or on which conductors may bear while in service.
- Designed to be popped onto, and bush, conduit end.
- Fast easy installation without screws
- High impact thermoplastic construction, for applications up to +105°C
- Flammability rating UL 94 V-1

Technical Information

Conduit Type	Metallic rigid conduits
Style	Straight
Material	UL 94 V-1 rated thermoplastic
Conformity	UL514, ANSI C80.4, ANSI C33.84 NFPA 70-1978 (ANSI)

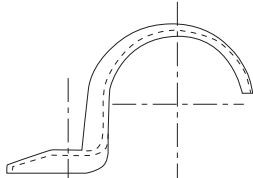


Product Ref.	For conduit size [inch]	A [mm]	Dimensions B [mm]	C [mm]	Weight [kg/100]	Quantity [pieces]
TRIB50	1/2	15.1	15.1	27.0	0.4	50
TRIB75	3/4	19.8	35.3	31.8	1.1	50
TRIB100	1	25.4	38.1	39.7	1.5	25
TRIB125	1 1/4	23.8	41.3	48.8	2.9	10
TRIB150	1 1/2	38.9	42.1	55.2	4.3	5
TRIB200	2	50.0	46.0	68.3	7.9	2
TRIB250	2 1/2	59.9	50.8	82.6	7.7	2
TRIB300	3	74.2	56.4	99.2	5.0	2
TRIB350	3 1/2	85.7	58.7	113.1	14.7	2
TRIB400	4	97.6	61.1	127.0	14.7	2

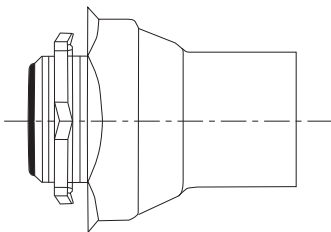
Other Thomas & Betts Conduit and Fittings

Examples of other fittings and accessories for the rigid and intermediate metal conduit:

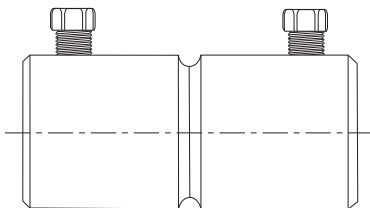
- Conduit straps and supports



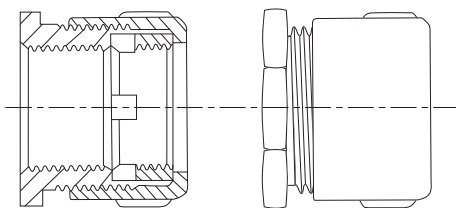
- Uncoated and PVC-coated hubs for threaded rigid conduits



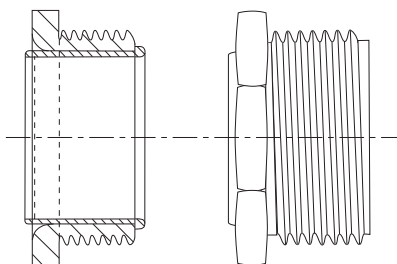
- Set screw connectors and couplings



- Threaded Erickson couplings



- Insulated nipples and bushings



The product ranges shown in this catalogue represent only a small part of the extensive range of conduits and fittings that Thomas & Betts offer on a global scale, including among others:

- Other special fittings for flexible metallic conduits (e.g. PVC coated fittings, aluminium fittings, fittings with revolving grounding lug, etc)
- Conduit outlet bodies, for ordinary and hazardous locations
- Explosion proof conduit outlet bodies, elbows, reducers, plugs, adapters and couplings



- Explosion proof aluminium sealing fittings



- STAR Teck metal clad cable glands for harsh and corrosive environments



- Non-metallic sheathed cable glands



- OCAL, corrosion resistant PVC-coated rigid conduits, junction boxes and accessories



For more detailed information on these products, please visit the Thomas & Betts global web site: www.tnb-europe.com and / or contact your Sales Office for product availability.



Cable glands
Providing strain relief
and sealing
for cable entries

CONDUIT & FITTINGS

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Plastic cable glands	336
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Whatever the application.
Whatever the size.
Thomas & Betts is your
connection to tough,
versatile cable glands.



Shureseal™ Cable glands

Providing strain relief and sealing for cable entries

The Liquidtight cable glands take twice the cable range of most ordinary strain relief connectors. T&B's cable glands allow you to reduce your inventory and save time, with one connector that can do the work of two. The sturdy nylon material of the plastic cable glands adds corrosion resistance to your installation.

Thomas & Betts offers a complete line of rugged, reliable cable glands. All fittings are produced to the highest standards, combining innovative design and precision manufacturing methods to provide the products you need for your specific applications. Combining proven performance, installation advantages and availability of ranges, T&B is also your connection to lower installed costs for the life of your cord and cable requirements.

Standard application

- Provide means for passing a cable into an enclosure, through a bulkhead or into a rigid conduit.
- Form a mechanical grip and water and/or oil resistant seal for round cables.
- Form a non-slip connection or termination for flexible cable.

Features

- Extended range with superior strain relief.
- Reduced overall size fits into tighter spaces.
- Gland nut designed to restrict cable bending.

Straight metallic cable glands

Cable glands



- Special construction prevents twisting and ensures effective strain relief

Technical Information

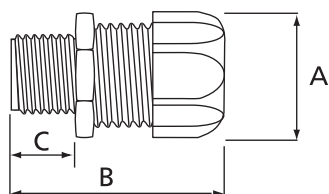
Style/thread	Straight / NPT and metric (I.S.O.)
IP rating	IP65
Material	Zinc or zinc plated steel
Gland nut	Steel or zinc plated steel
Seal	Neoprene or rubber
Colour	Metallic
Temperature range	-35°C to +105°C



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Product ref.	Material body	Material seal	Material nut	Cable ø range from...to [mm]	Thread size	A [mm]	Dimensions B [mm]	C [mm]	Quantity [pieces]
STRAIGHT METALLIC CABLE GLAND WITH METRIC (I.S.O.) THREAD									
9520*	zinc plated steel	Neoprene	zinc plated steel	3.2 - 6.3	M20	28.6	42.0	14.3	25
9521-EU*	zinc plated steel	Neoprene	zinc plated steel	6.3 - 9.5	M20	28.6	42.0	14.3	25
9522-EU*	zinc plated steel	Neoprene	zinc plated steel	9.5 - 12.7	M20	28.6	42.0	14.3	25
9523*	zinc plated steel	Neoprene	zinc plated steel	11.4 - 14.2	M20	28.6	42.0	14.3	25
9524-EU*	zinc plated steel	Neoprene	zinc plated steel	12.7 - 15.8	M20	34.9	44.5	15.0	25
STRAIGHT METALLIC CABLE GLAND WITH NPT THREAD									
2920	zinc	rubber	zinc plated steel	3.2 - 9.5	1/2	28.6	44.5	15.9	25
2921	zinc	rubber	zinc plated steel	7.9 - 14.2	1/2	28.6	44.5	15.9	25
2922	zinc	rubber	zinc plated steel	12.7 - 19.1	1/2	34.9	44.5	15.9	10
2930	zinc	rubber	zinc plated steel	3.2 - 9.5	3/4	34.9	45.2	19.1	10
2931	zinc	rubber	zinc plated steel	7.9 - 14.2	3/4	34.9	45.2	19.1	10
2932	zinc	rubber	zinc plated steel	12.7 - 19.1	3/4	34.9	45.2	19.1	10
2940	zinc	rubber	zinc plated steel	7.9 - 14.2	1	34.9	44.5	20.6	10
2941	zinc	rubber	zinc plated steel	12.7 - 19.1	1	34.9	44.5	20.6	10
2942	zinc	rubber	zinc plated steel	17.8 - 24.1	1	41.3	47.6	20.6	10
2520	zinc	Neoprene	steel	3.2 - 6.4	1/2	29.4	42.9	15.9	25
2521	zinc	Neoprene	steel	6.4 - 9.5	1/2	29.4	42.9	15.9	25
2522	zinc	Neoprene	steel	9.5 - 12.7	1/2	29.4	42.9	15.9	25
2523	zinc	Neoprene	steel	11.4 - 14.2	1/2	29.4	42.9	15.9	25
2524	zinc	Neoprene	steel	12.7 - 15.9	1/2	34.9	44.5	15.9	25
2525	zinc	Neoprene	steel	15.9 - 19.1	1/2	34.9	44.5	15.9	25
2558	zinc	Neoprene	steel	22.4 - 27.1	1 1/4	53.2	54.8	20.6	5
2559	zinc	Neoprene	steel	27.1 - 30.6	1 1/4	53.2	54.8	20.6	5
2562	zinc	Neoprene	steel	20.6 - 25.4	1 1/2	59.5	63.5	17.5	5
2563	zinc	Neoprene	steel	25.4 - 30.1	1 1/2	59.5	63.9	17.5	5
2574	zinc	Neoprene	steel	34.9 - 41.3	2	71.4	66.7	17.5	1
2575	zinc	Neoprene	steel	41.3 - 47.6	2	71.4	66.7	17.5	1

* The Product Ref. with a * are not CSA approved

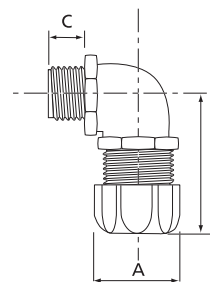
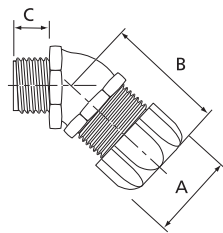
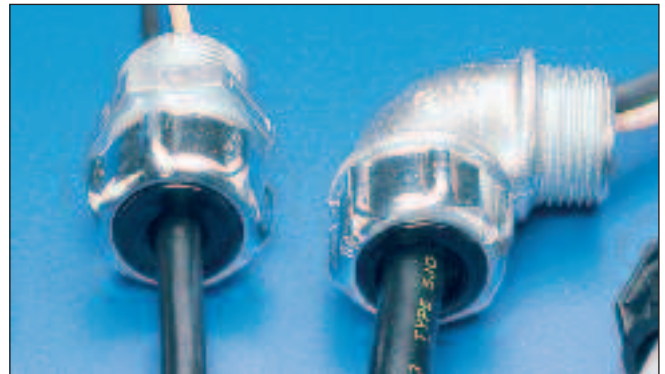
45° and 90° metallic cable glands

Cable glands

- Special construction prevents twisting and ensures effective strain relief

Technical Information

Style/thread	45° and 90° / NPT
IP rating	IP65
Material	Zinc or zinc plated steel
Gland nut	Steel or zinc plated steel
Seal	Neoprene or rubber
Colour	Metallic
Temperature range	-35°C to +105°C



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Product ref.	Material body	Material seal	Material nut	Cable ø range from...to [mm]	Thread size	Dimensions A [mm]	Dimensions B [mm]	Dimensions C [mm]	Quantity [pieces]
90° METALLIC CABLE GLAND WITH NPT THREAD									
4960	zinc plated steel	rubber	steel	3.2 - 9.5	1/2	28.6	44.5	15.9	25
4961	zinc plated steel	rubber	steel	7.9 - 14.2	1/2	28.6	44.5	15.9	25
4970	zinc plated steel	rubber	steel	3.2 - 9.5	3/4	34.9	45.2	17.5	10
4971	zinc plated steel	rubber	steel	7.9 - 14.2	3/4	34.9	45.2	17.5	10
4972	zinc plated steel	rubber	steel	12.7 - 19.0	3/4	34.9	45.2	17.5	10
45° METALLIC CABLE GLAND WITH NPT THREAD									
2200	zinc plated malleable iron	Neoprene	zinc plated steel	3.2 - 6.3	1/2	29.4	32.5	14.3	25
2201	zinc plated malleable iron	Neoprene	zinc plated steel	6.3 - 9.5	1/2	29.4	32.5	14.3	25
2202	zinc plated malleable iron	Neoprene	zinc plated steel	9.5 - 12.7	1/2	29.4	32.5	14.3	25
2203	zinc plated malleable iron	Neoprene	zinc plated steel	11.4 - 14.2	1/2	29.4	32.5	14.3	25
2204	zinc plated malleable iron	Neoprene	zinc plated steel	12.7 - 15.9	1/2	34.9	35.7	14.3	10
2205	zinc plated malleable iron	Neoprene	zinc plated steel	15.9 - 19.1	1/2	34.9	35.7	14.3	10
2206-TB	zinc plated malleable iron	Neoprene	zinc plated steel	3.2 - 6.3	3/4	34.9	35.7	15.9	10
2207-TB	zinc plated malleable iron	Neoprene	zinc plated steel	6.3 - 9.5	3/4	34.9	35.7	15.9	10
2208-TB	zinc plated malleable iron	Neoprene	zinc plated steel	9.5 - 12.7	3/4	34.9	35.7	15.9	10
2209	zinc plated malleable iron	Neoprene	zinc plated steel	12.7 - 15.9	3/4	34.9	35.7	15.9	10
2210	zinc plated malleable iron	Neoprene	zinc plated steel	15.9 - 19.1	3/4	34.9	35.7	15.9	10
2211	zinc plated malleable iron	Neoprene	zinc plated steel	19.1 - 22.2	3/4	42.9	38.1	38.1	10
2213	zinc plated malleable iron	Neoprene	zinc plated steel	9.5 - 12.7	1	34.9	38.1	19.8	5
2214	zinc plated malleable iron	Neoprene	zinc plated steel	12.7 - 15.9	1	34.9	38.1	19.8	5
2215	zinc plated malleable iron	Neoprene	zinc plated steel	15.9 - 19.1	1	34.9	38.1	19.8	5
2216	zinc plated malleable iron	Neoprene	zinc plated steel	19.1 - 22.2	1	42.9	37.3	19.8	5
2217	zinc plated malleable iron	Neoprene	zinc plated steel	22.2 - 25.0	1	42.9	37.3	19.8	5
2218	zinc plated malleable iron	Neoprene	zinc plated steel	22.3 - 27.0	1	53.2	50.0	19.8	5
2219	zinc plated malleable iron	Neoprene	zinc plated steel	27.0 - 30.1	1	53.2	50.0	19.8	5
2220-TB	zinc plated malleable iron	Neoprene	zinc plated steel	22.3 - 27.0	1 1/4	53.2	48.4	20.6	2
2221	zinc plated malleable iron	Neoprene	zinc plated steel	27.0 - 30.1	1 1/4	53.2	48.4	20.6	2
2222	zinc plated malleable iron	Neoprene	zinc plated steel	30.1 - 34.9	1 1/4	59.5	57.2	20.6	2
2223	zinc plated malleable iron	Neoprene	zinc plated steel	34.9 - 37.7	1 1/4	59.5	57.2	20.6	2

Plastic cable glands

Cable glands



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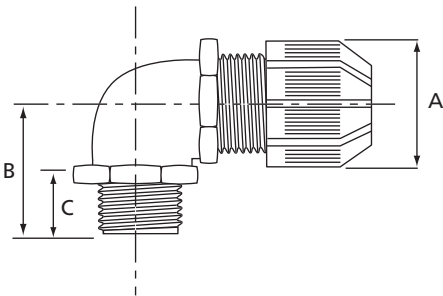
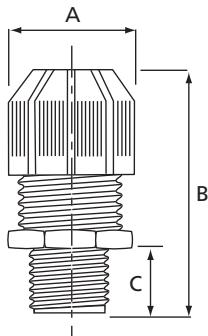


E13938

- High performance plastic cable fittings
- Special construction prevents twisting and ensures effective strain relief
- Easy to install
- For all cable sizes between 3.2 and 24.1 mm of outer diameter

Technical Information

Style/thread	Straight and 90° / NPT threads
IP rating	IP65
Material	UV resistant polyamide 6.6.
Steel locknut	Chromate finished steel or zinc
Seal	Neoprene
Colour	Black
Flammability rating	UL 94 V-2
Temperature range	-34°C to +105°C



Product ref.	Cable diameter range from...to [mm]	Thread size [inch]	A [mm]	Dimensions B [mm]	C [mm]	Quantity [pieces]
STRAIGHT PLASTIC CABLE GLAND WITH NPT THREAD						
2920NM	3.2 - 9.5	1/2	26.2	54.0	15.9	25
2921NM	7.9 - 14.2	1/2	26.2	54.0	15.9	25
2922NM	12.7 - 19.0	1/2	35.7	54.0	15.9	25
2930NM	3.2 - 9.5	3/4	35.7	55.6	15.9	10
2931NM	7.9 - 14.2	3/4	35.7	55.6	15.9	10
2932NM	12.7 - 14.2	3/4	35.7	55.6	15.9	10
2940NM	7.9 - 14.2	1	35.7	59.5	19.8	10
2941NM	12.7 - 19.0	1	35.7	59.5	19.8	10
2942NM	17.8 - 24.1	1	42.5	60.3	19.8	10
90° PLASTIC CABLE GLAND WITH NPT THREAD						
4960NM	3.2 - 9.5	1/2	30.9	31.8	15.9	25
4961NM	7.9 - 14.2	1/2	30.9	31.8	15.9	25
4970NM	3.2 - 9.5	3/4	35.7	34.9	15.9	10
4971NM	7.9 - 14.2	3/4	35.7	34.9	15.9	10
4972NM	12.7 - 19.0	3/4	35.7	34.9	15.9	10

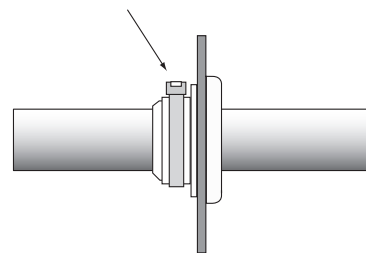
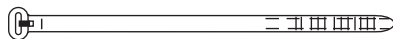
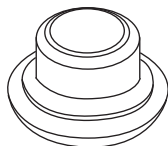
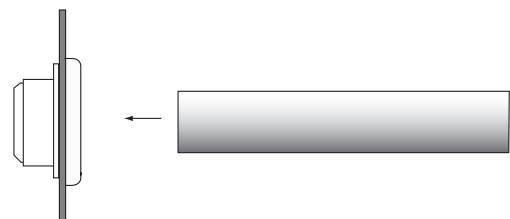
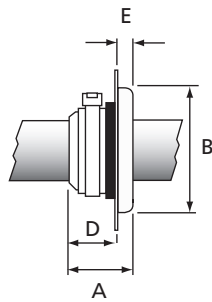
Housing entry tubes with strain relief ties

Cable glands

- Highly elastic material allows passing of single wires
- Resistant to chemicals
- Weatherproof
- Simple and fast installation
- Supplied with a UV-resistant Ty-Rap® cable tie (see chapter 1 for cable tie specifications) for strong, secure and watertight strain-relief

Technical Information

Material - Housing	Neoprene
Material - Tie	Polyamide 6.6, UV-resistant
Temperature range	-30°C to +110°C for the housing -40°C to +85°C for the cable tie
Colour	Black (housing and tie)
Flammability rating	UL 514 (housing) UL 94 V-2 (cable tie)
Other properties	Halogen free, Silicone free



Product Ref.	A [mm]	B [mm]	Dimensions D [mm]	E [mm]	for cable ø from ... to [mm]	ø of hole in panel [mm]	for panel thickness up to [mm]	Type of included cable tie	Weight [g/100]	Quantity [pieces]
7401	18.6	24	13.6	5.0	4.0 - 9.0	16	2.2	TY24MX	420	10
7402	18.7	28	13.7	5.0	7.0 - 12.0	19	2.2	TY25MX	690	10
7403	22.0	34	17.0	5.0	12.0 - 18.0	25	2.2	TY25MX	1100	10
7404	24.0	43	19.0	5.0	18.0 - 25.0	32	2.2	TY25MX	1500	5
7405	24.5	51	18.5	6.0	25.0 - 32.0	38	2.2	TY25MX	1950	5