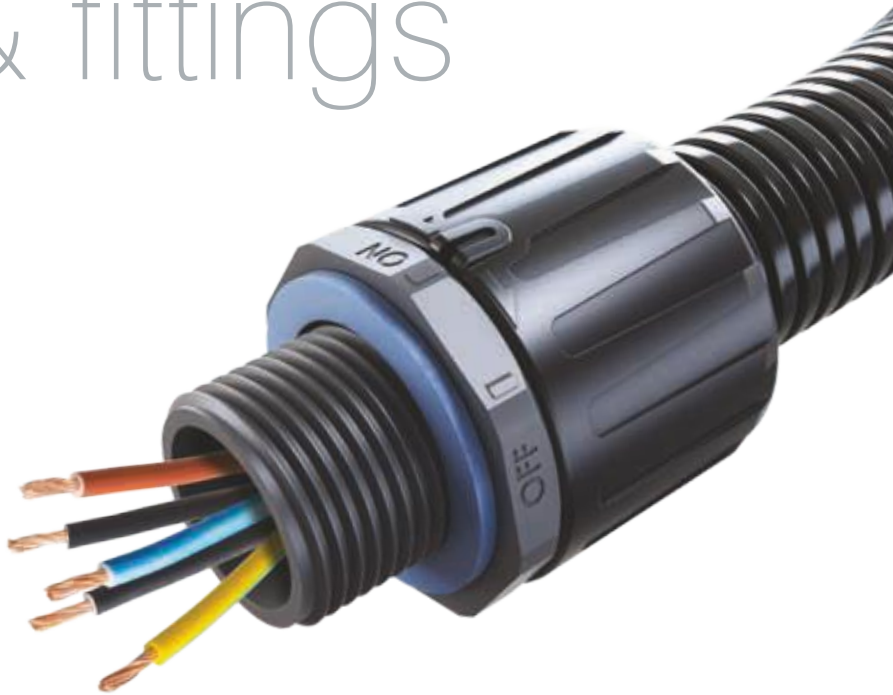


non- metallic conduit & fittings



BS EN IEC 61386



Non-metallic conduit selection guide

Conduit System		FPAS	FPAL	FPAH	FPASC	FPR	FPADS	FPI	FPIH	FPIHR	FPP	FPP-NFR	FPP-H
IP Rating	IP40						●						
	IP54												
	IP65												
	IP66	●	●	●	●	●		●	●	●	●	●	●
	IP67	●	●	●	●	●		●	●	●	●	●	●
	IP68	●	●	●	●	●		●	●	●	●	●	●
	IP69	●	●	●	●	●		●	●	●			
Compression Strength (kg / 100mm)		75	60	120	75	75	60	45	60	60	35	35	100
Pull Off Strength (kg) for 21/20mm size		40	30	70	40	40	15	30	50	35	25	25	40
Min Bend Radius (mm) for 21/20mm size		45	40	55	45	45	120	35	45	55	40	40	60
Colours		black, grey	black, grey	black	black, grey	black	black, blue, orange, white	black	black	black	black, grey, white	black	black
High Fatigue Life		●	●		●			●	●	●			
Temp	Max	120°C	120°C	120°C	120°C	120°C	120°C	110°C	110°C	110°C	90°C	90°C	90°C
	Min	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-50°C	-50°C	-50°C	-20°C	-20°C	-20°C
Category	Flexible	●	●	●	●	●		●	●	●	●	●	●
	Pliable						●						
Low Fire Hazard	** Extra Standard												
	Halogen Free	●	●	●	●	●	●	●	●	●		●	
Fire Tests	Self Extinguishing	●	●	●	●	●	●	●	●	●	●		●
	EN 45545-2					●				●			
	NFPA-130					●				●			
Abrasion Resistance		●		●	●	●	●		●	●			
Resistance to solvents		●	●	●	●	●	●	●	●	●			
UV Resistance		●		●	●	●	●	●	●	●			
Approvals	UL Recognised	●	●	●		●		●	●				
	UL Listed				●								
	Lloyds	●				●							
	London Underground					●							
	Network Rail	●		●		●	●		●	●			
	Food Contact												
ROHS		●	●	●	●	●	●	●	●	●	●	●	●
REACH		●	●	●	●	●	●	●	●	●	●	●	●
Page Number		44	44	44	44	45	45	45	45	45	46	46	46

Non-metallic conduit selection guide

	FPL	FPY	FPYS	FPYL	FPYLS	FPCB	FPCG	FPCGN	FPCBU	LPCB	LPCO	LPCBU	LPCGN	LPC-FG
	●	●		●										
						●	●	●	●					
	●	●		●						●	●	●	●	●
	●	●		●						●	●	●	●	●
										●	●	●	●	●
	150	60	N/A	45	N/A	60	60	60	60	120	120	120	120	120
	30	25	N/A	15	N/A	25	25	25	25	70	45	60	60	60
	30	40	40	40	40	35	35	35	35	70	70	70	70	70
	black, grey, white	black, grey	black	black	black	black	light grey	green	blue	black	orange	blue	green	white, blue, grey
		●												
	70°C	120°C	120°C	120°C	120°C	70°C	70°C	70°C	90°C	70°C	70°C	90°C	70°C	90°C
	-5°C	-40°C	-40°C	-40°C	-40°C	-5°C	-20°C	-20°C	-20°C	-5°C	-20°C	-20°C	-20°C	-20°C
		●		●		●	●	●	●	●	●	●	●	●
	●		●		●									
		●	●	●	●									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		●	●	●	●									
						●				●				
						●	●	●	●					
														●
	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	70	72	72	72	72	78	78	78	78	80	80	80	80	84

Non-metallic fittings selection guide

FPA

IP66

Straight Fitting



90° Elbow



45° Elbow



Fittings with Integral Strain Relief



Other Fittings

Coupler

T-Pieces

Reducer

Reducing Divider



FPAX

IP66

IP67

IP68

IP69



Coupler

T-Pieces

Reducer

Reducing Divider



Straight Fitting



60

60

60

61

61

90° Elbow



62

62

62

62

63

45° Elbow



64

63

64

64

63

Fittings with Integral Strain Relief



65

65

65

Other Fittings

Coupler T-Pieces Reducer Reducing Divider



61

67

67

67

Other

Straight



68

78

75

Elbows



69

79

75

Accessories



128

76



128



130

129

130

129


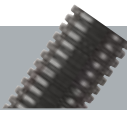




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Non-metallic systems are typically lighter, easier to work with and more cost effective to install. With advances in material technologies non-metallic systems can provide an alternative solution where typically only metal systems had been considered previously.

Non-Metallic Conduit and Fittings

FPAS	FPAL	FPAH	FPASC
 <p>Construction: Standard weight, flame retardant nylon (PA6) corrugated flexible conduit. Colour: Black or Grey (RAL 7031). Orange available on request.* Typical Applications: All types of machinery, public buildings.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) Lloyd's Register Type Approval UL recognised Low Fire Hazard (LFH), see page 149 UL 94 V2 flame retardancy Halogen, sulphur and phosphorus free UV resistant (black) Abrasion resistant Highly resistant to solvents and oils Slit version also available FPAS-S please contact us 	 <p>Construction: Light weight nylon (PA6) corrugated flexible conduit. Colour: Black or Grey (RAL 7031). Typical Applications: Machines where lower mechanical protection is required and buildings.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) UL recognised Highly resistant to solvents and oils Self extinguishing Halogen, sulphur and phosphorus free 	 <p>Construction: Heavy weight, flame retardant, nylon (PA6) corrugated flexible conduit. Colour: Black. Typical Applications: All types of machinery and public buildings where high mechanical strength required.</p> <ul style="list-style-type: none"> High mechanical strength High impact resistance Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) UL recognised Low Fire Hazard (LFH), see page 149 UL 94 V2 flame retardancy Halogen, sulphur and phosphorus free UV resistant Abrasion resistant Highly resistant to solvents and oils 	 <p>Construction: Standard weight, flame retardant nylon (PA6) corrugated flexible conduit. Colour: Black or Grey (RAL 7031). Typical Applications: All types of machinery, public buildings where UL listed is a requirement.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) UL listed Lloyd's Register Type Approval Low Fire Hazard (LFH), see page 149 UL 94 V2 flame retardancy Halogen, sulphur and phosphorus free UV resistant (black) Abrasion resistant Highly resistant to solvents and oils

european (NW) sizes nominal size (mm)	pitch	FPAS				FPAL				FPAH				FPASC												
		part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)					
7	10	F	FPAS10	50	10.0	6.3	15	FPAL10	50	10.0	6.5	15														
8	11	F	FPAS11	50	11.5	8.2	20	FPAL11	50	11.5	8.4	20														
10	13	F	FPAS13	25, 50	13.0	9.8	25	FPAL13	50	13.0	10.0	25	FPAH13	50	13.0	9.0	35									
12	16	F	FPAS16	25, 50	15.8	11.8	35	FPAL16	50	15.8	12.0	35	FPAH16	50	15.8	11.5	45									
14	18	F	FPAS18	50	18.5	14.2	40	FPAL18	50	18.5	14.2	35														
20	20	C	FPAS20	10, 25, 50	20.0	14.8	45	FPAL20	50	20.0	15.0	40														
17	21	F	FPAS21	10, 25, 50	21.2	16.7	45	FPAL21	50	21.2	16.9	40														
21	21	C											FPAH21	50	21.2	15.5	55	FPAS21C	50	21.2	16.0	45				
25	25	C	FPAS25	10, 25, 50	25.0	19.1	50	FPAL25	50	25.0	19.3	45														
23	28	F	FPAS28	10, 25, 50	28.5	22.8	50	FPAL28	50	28.5	23.0	45														
23	28	C																								
29	34	C	FPAS34	25, 50	34.5	28.1	60	FPAL34	25, 50	34.5	28.3	55	FPAH28	50	28.5	21.3	60	FPAS28C	50	28.5	21.7	50				
29	34	F	FPAS34F*	50	34.5	28.8	60						FPAH34	25	34.5	27.6	70	FPAS34C	50	34.5	28.1	60				
36	42	C	FPAS42	10, 25, 50	42.5	35.5	70	FPAL42	25	42.5	35.7	65	FPAH42	25	42.5	34.6	80	FPAS42C	25	42.5	35.5	70				
48	54	C	FPAS54	10, 25, 50	54.5	47.2	80	FPAL54	25	54.5	47.4	80	FPAH54	25	54.5	46.0	90	FPAS54C	25	54.5	47.2	80				
56	67	C	FPAS67	10	67.2	56.3	130	FPAL67	10	67.2	56.5	110						FPAS67C	10	67.2	56.3	130				

For larger diameter conduit see page 74

Ordering Notes

- Specify Black or Grey (B = Black, G = Grey) and reel length eg: FPAS21B-50M for a Black 50m reel
- Some reel lengths are MTO in grey
- See cutting tool page 131
- * Indicates parts made to order on request and may be subject to MOQ and lead time
- Available on request:**
 - longer lengths and bulk packaging
 - cut lengths and assemblies
 - other colours
 - full copies of independent test results confirming LFH properties
- conduit with pre-installed draw wire
- fine pitch 34mm sizes
- Contractor Packs available see page 132 & 133
- For LFH performance see page 149

We have a range of products that can offer properties dependent on your requirement for impact resistance, flexibility, fatigue life, operating temperature and fire performance to name but a few.

EN 45545-2 NFPA 130

EN 45545-2 NFPA 130

FPR	FPADS	FPI	FPIH	FPIHR
<p>Construction: Standard weight nylon (highly flame retardant PA6) corrugated flexible conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Railways, underground and public buildings.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) UL recognised Lloyd's Register Type Approval Extra Low Fire Hazard (LFH) Compliant to LUL Std S1085 UL 94 V0 flame retardancy Halogen, sulphur and phosphorus free UV resistant Abrasion resistant Highly resistant to solvents and oils 	<p>Construction: Double slit nylon (PA6) corrugated conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Retrofit and cable assemblies with pre terminated plugs.</p> <ul style="list-style-type: none"> Made from 2 interlocking slit corrugated conduits Temperature range -40°C to +120°C Cables can be inserted laterally Provides abrasion resistance and routing of cables for static applications Self extinguishing Halogen, sulphur and phosphorus free UV resistant Other colours available* in 21mm and 28mm Grey, Blue, Orange and White Also available in polypropylene in Black 	<p>Construction: Standard weight nylon (PA12) corrugated flexible conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Robots and continual flexing.</p> <ul style="list-style-type: none"> Highly flexible Exceptional fatigue life High impact resistance even at very low temperatures UV resistant Displays self recovery if crushed Temperature range -50°C to +110°C UL recognised Highly resistant to solvents and oils Self extinguishing Halogen, sulphur and phosphorus free 	<p>Construction: Heavy weight nylon (PA12) corrugated flexible conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Robots and continual flexing where higher mechanical strength required.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High mechanical strength High impact resistance even at very low temperatures UV resistant Displays self recovery if crushed Temperature range -50°C to +110°C UL recognised Highly resistant to solvents and oils Self extinguishing Halogen, sulphur and phosphorus free 	<p>Construction: Heavy weight nylon (PA12) corrugated flexible conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Where continual movement or flexing is required, with a higher mechanical strength even at very low temperatures such as on Bogies or Inter-car Jumper assemblies. Rolling Stock applications requiring a superior level of fire performance.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High mechanical strength High impact resistance even at very low temperatures UV resistant Displays self recovery if crushed Temperature range -50°C to +110°C Highly resistant to solvents and oils Self extinguishing Extra Low Fire Hazard (LFH) Halogen, sulphur and phosphorus free EN 45545 and NFPA 130

FPR	FPADS	FPI	FPIH	FPIHR	pitch	nominal size (mm)	European (NW) sizes
part number	part number	part number	part number	part number			
reel length (m)	reel length (m)	reel length (m)	reel length (m)	reel length (m)			
outside dia (mm)	outside dia (mm)	outside dia (mm)	outside dia (mm)	outside dia (mm)			
inside dia (mm)	inside dia (mm)	inside dia (mm)	inside dia (mm)	inside dia (mm)			
min inside bend radius (mm)	min inside bend radius (mm)	min inside bend radius (mm)	min inside bend radius (mm)	min inside bend radius (mm)			
FPAD10	FPAD10	FPI10	FPIH10	FPIHR10	F	10	7
FPAD11	FPAD11	FPI11	FPIH11	FPIHR11	F	11	8
FPAD13	FPAD13	FPI13	FPIH13	FPIHR13	F	13	10
FPAD16	FPAD16	FPI16	FPIH16	FPIHR16	F	16	12
FPAD20	FPAD20	FPI20	FPIH20	FPIHR20	F	18	14
FPAD21	FPAD21	FPI21	FPIH21	FPIHR21	C	20	
FPAD25	FPAD25	FPI25	FPIH25	FPIHR25	F	21	17
FPAD28	FPAD28	FPI28	FPIH28	FPIHR28	C	21	
FPAD34	FPAD34	FPI34	FPIH34	FPIHR34	C	25	
FPAD42	FPAD42	FPI42	FPIH42	FPIHR42	F	28	23
FPAD54	FPAD54	FPI54	FPIH54	FPIHR54	C	28	23
FPAD67	FPAD67	FPI67	FPIH67	FPIHR67	C	34	29
FPAD77	FPAD77	FPI77	FPIH77	FPIHR77	F	34	29
FPAD86	FPAD86	FPI86	FPIH86	FPIHR86	C	42	36
FPAD100	FPAD100	FPI100	FPIH100	FPIHR100	C	42	36
FPAD125	FPAD125	FPI125	FPIH125	FPIHR125	C	54	48
FPAD150	FPAD150	FPI150	FPIH150	FPIHR150	C	54	48
FPAD175	FPAD175	FPI175	FPIH175	FPIHR175	C	67	56
FPAD200	FPAD200	FPI200	FPIH200	FPIHR200	C	67	56

For larger diameter conduit see page 74


Standards



NEW


FPP	FCL	FCLAMP	EC	REC
<p>Construction: Standard weight polypropylene, flexible conduit.</p> <p>Colour: Black, Grey (RAL 7031) or White (see page 71)</p> <p>Typical Applications: Buildings, particularly where buried in concrete or plaster.</p> <ul style="list-style-type: none"> • Acid resistant • Temperature range -20°C to +90°C • Self extinguishing • Slit version also available FPP-S <p>Other options available:</p>	<p>nylon corrugated conduit clip with integral lid</p> <p>Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent corrugated conduit from pulling through, 20 Kg with FPAS21.</p>	<p>non-metallic, heavy duty conduit clamp</p> <p>Nylon PA66, conduit fixing clamp for corrugated conduit. Suitable for use with fine or coarse pitch conduits. Can be used with a range of accessories including cover plates and weld plates (available separately - see page 76).</p>	<p>end cap</p> <p>Nylon PA66 end cap to snap over end of conduit and provide a smooth entry bush to prevent snagging and sharp edges, and provide a neat finish when no connectors are used.</p>	<p>rubber end cap</p> <p>Thermoplastic elastomer cap used to seal end of conduit. Can be cut to size depending on size of cable. Can be additionally secured using cable tie (not supplied).</p>

FPP-NFR



LSOH conduit for data cabling applications.

FPPH



Heavy weight conduit for buried underground applications.



FPP	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	Conduit Clip	FCLAMP	End Cap	part number	to fit conduit size	outlet ID mm	pitch	nominal size (mm)	European (NW) sizes
	FPP10	50	10.0	6.3	15	FCL10			REC10	10	0-7	F	10	7
	FPP13	50	13.0	9.8	25	FCL13			REC10	11	0-7	F	11	8
	FPP16	50	15.8	11.8	35	FCL16	FCLAMP- 3-16	EC16B	REC13	13	0-7	F	13	10
						FCL18			REC16	16	0-11	F	16	12
	FPP20	50	20.0	14.8	40	FCL20						C	20	
	FPP21	50	21.2	16.7	40	FCL21	FCLAMP- 3-21	EC21B	REC21	21	0-15	F	21	17
						FCL21	FCLAMP- 3-21	EC21B	REC21	21	0-15	C	21	
	FPP25	50	25.0	19.1	50	FCL25						C	25	
	FPP28	50	28.5	22.8	55	FCL28	FCLAMP- 4-28	EC28B	REC28	28	0-21	F	28	23
						FCL28	FCLAMP- 4-28	EC28B	REC28	28	0-21	C	28	23
	FPP34	25, 50	34.5	28.1	65	FCL34	FCLAMP- 5-34	EC34B	REC34	34	0-25	C	34	29
						FCL34	FCLAMP- 5-34	EC34B	REC34	34	0-25	F	34	29
	FPP42	25	42.5	35.5	80	FCL42	FCLAMP- 6-42	EC42B	REC42	42	0-34	C	42	36
	FPP54	25	54.5	47.2	100	FCL54	FCLAMP- 7-54	EC54B	REC54	54	0-46	C	54	48
	FPP67	10	67.2	56.3	150		FCLAMP- 7-67		REC67	67	0-52	C	67	56

For larger diameter conduit see page 74
 NOTE: FPP - NFR and FPPH.
 Contact us for more details

F = fine pitch C = coarse pitch

Ordering Notes

- Specify colour (B = Black, G = Grey) and reel length eg: FPP16B-50M for a Black 50m reel
- Some lengths are MTO in Grey
- **Available on request:**
 - longer lengths and bulk packaging
 - cut lengths and assemblies
 - additional sizes
 - other colours
- conduit with pre-installed draw wire
- FPADS in Polypropylene (PP)



Non-Metallic Conduit and Fittings

To make your selection from our wide range of flexible conduits easier, we have devised a table (see below) which offers a one page summary to help you when you come to select your fittings.

We have a wide selection of fittings that can be used with the conduits listed below.

Simply use the pull out page as a guide to see which fittings from the FPA, FPAX, FPAU, Flexilok and T-pieces you can use with your chosen conduit.



Using this fold out page will illustrate the wide range of non-metallic corrugated conduits we offer. There are ten different non-metallic conduit families listed in this spread and these are detailed across Pages 44 - 46.

Ordering Notes

Once you have chosen your conduit from our wide range of products listed on Pages 44, 45 and 46, simply use this fold out page as a guide to see which fittings correspond with your selected conduit.

The fold out conduit summary chart below lines up with the respective subsequent fittings pages to allow you to still see your selected conduit, whilst selecting your fittings.

european (NW) sizes	pitch	nominal size (mm)	OD mm											
				FPAS	FPAL	FPAH	FPASC	FPR	FPADS	FPI	FPIH	FPIHR	FPP	
				part number	part number	part number	part number	part number	part number	part number	part number	part number	part number	part number
7	F	10	10.0	FPAS10	FPAL10			FPR10						FPP10
7	F	10												
8	F	11	11.5	FPAS11	FPAL11				FPADS11					
10	F	13	13.0	FPAS13	FPAL13	FPAH13		FPR13	FPADS13	FPI13	FPIH13	FPIHR13	FPP13	
10	F	13												
10	F	13												
12	F	16	15.8	FPAS16	FPAL16	FPAH16		FPR16	FPADS16	FPI16	FPIH16	FPIHR16	FPP16	
12	F	16												
12	F	16												
12	F	16												
14	F	18	18.5	FPAS18	FPAL18									
14	F	18												
	C	20	20.0	FPAS20				FPR20						FPP20
17	F	21	21.2	FPAS21	FPAL21			FPR21		FPI21				FPP21
17	C	21				FPAH21	FPAS21C		FPADS21		FPIH21	FPIHR21		
17	C	21												
	C	25	25.0	FPAS25	FPAL25			FPR25						FPP25
23	F	28	28.5	FPAS28	FPAL28									FPP28
23	C	28				FPAH28	FPAS28C	FPR28	FPADS28	FPI28	FPIH28	FPIHR28		
29	C	34	34.5	FPAS34	FPAL34	FPAH34	FPAS34C	FPR34	FPADS34	FPI34	FPIH34	FPIHR34	FPP34	
29	F	34		FPAS34F										
36	C	42	42.5	FPAS42	FPAL42	FPAH42	FPAS42C	FPR42	FPADS42	FPI42	FPIH42	FPIHR42	FPP42	
36	C	42												
48	C	54	54.5	FPAS54	FPAL54	FPAH54	FPAS54C	FPR54	FPADS54	FPI54	FPIH54	FPIHR54	FPP54	
48	C	54												
56	C	67	67.0	FPAS67	FPAL67		FPAS67C	FPR67		FPI67	FPIH67	FPIHR67	FPP67	

Standards



IEC EN 61386





FPA system nylon

Construction: Nylon (PA66) moulded fittings.

IP66





FPA system brass threaded

Construction: Nylon (PA66) moulded fitting with nickel plated brass swivel thread.

Colour: Black or Grey.

EXTRA
LOW FIRE
HAZARD
★★

Fittings

			FPA	FPA	FPA	FPA90					
			straight external thread	straight UNEF swivel internal thread	flange	90° elbow external thread					
			One piece, fast fit, external threaded fitting. Suitable for knockouts or threaded entries.	One piece, fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.	One piece, fast fit fitting with nylon swivel flange with 'O' ring.	One piece, fast fit, external threaded 90 degree elbow fitting. Suitable for knockouts.					
			IP66	IP66	IP66	IP66					
											
European (NW) sizes	nominal size (mm)	OD mm	Ext Metric	Ext PG	Ext NPT	Ext UNEF	Thread	Ext Flange	90 Degree Metric	90 Degree PG	90 Degree NPT
7	10	10.0	FPA10-M12	FPA10-PG7					FPA10-M12-90	FPA10-PG7-90	
7	10		FPA10-M16	FPA10-PG9							
8	11	11.5	FPA11-M12	FPA11-PG7					FPA11-M12-90		
10	13	13.0	FPA13-M12	FPA13-PG7		FPA13-BU063	(5/8")		FPA13-M16-90	FPA13-PG9-90	
10	13		FPA13-M16	FPA13-PG9		FPA13-BU075	(3/4")				
10	13		FPA13-M20	FPA13-PG11		FPA13-BU088	(7/8")				
12	16	15.8	FPA16-M16	FPA16-PG9	FPA16-038	FPA16-BU075	(3/4")	FPA16-FL	FPA16-M16-90	FPA16-PG9-90	FPA16-050-90
12	16		FPA16-M20	FPA16-PG11	FPA16-050	FPA16-BU088	(7/8")		FPA16-M20-90	FPA16-PG11-90	
12	16			FPA16-PG13		FPA16-BU100	(1")			FPA16-PG13-90	
12	16			FPA16-PG16		FPA16-BU119	(1 1/8")				
14	18	18.5	FPA18-M20	FPA18-PG13					FPA18-M20-90		
14	18										
	20	20.0	FPA20-M20						FPA20-M20-90		
17	21	21.2	FPA21-M20	FPA21-PG13	FPA21-050	FPA21-BU100	(1")	FPA21-FL	FPA21-M20-90	FPA21-PG16-90	FPA21-050-90
17	21		FPA21-M25	FPA21-PG16		FPA21-BU119	(1 1/8")				
17	21					FPA21-BU125	(1 1/4")				
	25	25.0	FPA25-M25						FPA25-M25-90		
23	28	28.5	FPA28-M25	FPA28-PG21	FPA28-075	FPA28-BU138	(1 1/8")	FPA28-FL	FPA28-M25-90	FPA28-PG21-90	FPA28-075-90
23	28		FPA28-M32	FPA28-PG29		FPA28-BU144	(1 1/4")				
29	34	34.5	FPA34-M32	FPA34-PG29	FPA34-100	FPA34-BU144	(1 1/4")	FPA34-FL	FPA34-M32-90	FPA34-PG29-90	FPA34-100-90
29	34		FPA34-M40			FPA34-BU175	(1 3/4")				
36	42	42.5	FPA42-M40	FPA42-PG36	FPA42-125	FPA42-BU200	(2")	FPA42-FL	FPA42-M40-90	FPA42-PG36-90	FPA42-125-90
36	42		FPA42-M50		FPA42-150	FPA42-BU225	(2 1/4")		FPA42-M50-90		FPA42-150-90
48	54	54.5	FPA54-M50	FPA54-PG42	FPA54-150	FPA54-BU200	(2")		FPA54-M50-90	FPA54-PG48-90	FPA54-150-90
48	54		FPA54-M63	FPA54-PG48	FPA54-200	FPA54-BU225	(2 1/4")		FPA54-M63-90		FPA54-200-90
56	67	67.0	FPA67-M63	FPA67-PG48	FPA67-200				FPA67-M63-90	FPA67-PG48-90	FPA67-200-90

Ordering Notes

- Specify Black or Grey (B = Black, G = Grey) eg. FPA16-M16B
- The IP rating onto a UNEF threaded connector may be dependent on the design of the connector





• **Available on request:**

- additional sizes, alternative threads
- additional UNEF threads and combinations

* Indicates parts made to order on request and may be subject to MOQ and lead time

properties

- 1 part fast fit
- IP rating: IP66
- Vibration & shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- Both 90° & 45° elbows incorporate swept bore to facilitate cable installation & protect cables when installed
- All round teeth give high pull off strength 70kg with FPAH21
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- Available in Black or Grey (RAL 7031)
- EN 45545 HL3 and NFPA compliant
- Nylon metric threads supplied with glass reinforced nylon locknut
- Face seal washers available on request - see page 128

FPA90		FPA90		FPA45			FPA45			nominal size (mm)	OD mm	european (NW) sizes
90° elbow UNEF swivel internal thread		flange		45° elbow external thread			45° elbow UNEF swivel internal thread					
One piece, fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.		One piece, fast fit 90 degree elbow fitting with nylon swivel flange with 'O' ring face seal.		One piece, fast fit, external threaded 45 degree elbow fitting. Suitable for knockouts.			One piece, fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.					
IP66		IP66		IP66			IP66					
												
90 Degree UNEF	Thread	90 Degree Flange		45 Degree Metric	45 Degree PG	45 Degree NPT	45 Degree UNEF	Thread				
									10	10.0	7	
									10		7	
									11	11.5	8	
FPA13-BU063-90	(5/8")								13	13.0	10	
FPA13-BU075-90	(3/4")								13		10	
FPA13-BU088-90	(7/8")								13		10	
FPA16-BU075-90	(3/4")	FPA16-FL-90		FPA16-M20-45	FPA16-PG13-45	FPA16-050-45	FPA16-BU075-45	(3/4")	16	15.8	12	
FPA16-BU088-90	(7/8")						FPA16-BU088-45	(7/8")	16		12	
FPA16-BU100-90	(1")						FPA16-BU100-45	(1")	16		12	
FPA16-BU119-90	(1 1/16")						FPA16-BU119-45	(1 1/16")	16		12	
									18	18.5	14	
									18		14	
									20	20.0		
FPA21-BU100-90	(1")	FPA21-FL-90		FPA21-M20-45	FPA21-PG13-45	FPA21-050-45	FPA21-BU100-45	(1")	21	21.2	17	
FPA21-BU119-90	(1 1/16")				FPA21-PG16-45		FPA21-BU119-45	(1 1/16")	21		17	
FPA21-BU125-90	(1 1/4")						FPA21-BU125-45	(1 1/4")	21		17	
									25	25.0		
FPA28-BU138-90	(1 3/8")	FPA28-FL-90		FPA28-M25-45	FPA28-PG21-45	FPA28-075-45	FPA28-BU138-45	(1 3/8")	28	28.5	23	
FPA28-BU144-90	(1 7/16")						FPA28-BU144-45	(1 7/16")	28		23	
FPA34-BU144-90	(1 7/16")	FPA34-FL-90		FPA34-M32-45	FPA34-PG29-45	FPA34-100-45	FPA34-BU144-45	(1 7/16")	34	34.5	29	
FPA34-BU175-90	(1 3/4")						FPA34-BU175-45	(1 3/4")	34		29	
FPA42-BU200-90	(2")	FPA42-FL-90		FPA42-M50-45	FPA42-PG36-45	FPA42-150-45	FPA42-BU200-45	(2")	42	42.5	36	
FPA42-BU225-90	(2 1/4")						FPA42-BU225-45	(2 1/4")	42		36	
FPA54-BU200-90	(2")	FPA54-FL-90*		FPA54-M50-45		FPA54-150-45	FPA54-BU200-45	(2")	54	54.5	48	
FPA54-BU225-90	(2 1/4")						FPA54-BU225-45	(2 1/4")	54		48	
									67	67.0	56	

Standards



BS EN IEC 61386





FPA system nylon

Construction: Nylon (PA66) moulded fittings.

FPA system brass threaded

Construction: Nylon (PA66) moulded fitting with nickel plated brass swivel thread.

Colour: Black or Grey.



IP66

Fittings

			FPA45	FPA-FPA	FPA-MPC
			flange	coupler	coupler
			One piece, fast fit 45 degree elbow fitting with nylon swivel flange with 'O' ring face seal.	One piece, fast fit, coupler to join corrugated conduits. Also available in FPAX and FPAU versions.	One piece, fast fit, coupler to join corrugated conduit to rigid conduit.
					
					
			45 Degree Flange	Coupler	Rigid Conduit Coupler
7	10	10.0			
7	10				
8	11	11.5			
10	13	13.0			
10	13				
10	13				
12	16	15.8	FPA16-FL-45	FPA16-FPA16	FPA16-MPC16
12	16				
12	16				
12	16				
14	18	18.5			
14	18				
	20	20.0		FPA20-FPA20	
17	21	21.2	FPA21-FL-45	FPA21-FPA21	FPA21-MPC20
17	21				
17	21				
	25	25.0		FPA25-FPA25	
23	28	28.5	FPA28-FL-45	FPA28-FPA28	FPA28-MPC25
23	28				
29	34	34.5	FPA34-FL-45	FPA34-FPA34	FPA34-MPC32
29	34				
36	42	42.5	FPA42-FL-45	FPA42-FPA42	FPA42-MPC40
36	42				
48	54	54.5	FPA54-FL-45	FPA54-FPA54	
48	54				
56	67	67.0			

European (NW) sizes
nominal size (mm)
OD mm

Ordering Notes

- * Indicates parts made to order on request
- NPB = Nickel Plated Brass

- Available on request:
 - colour Grey, other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braid clamp version see page 124



properties

- 1 part fast fit
- IP rating: IP66
- Vibration & shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- Both 90° & 45° elbows incorporate swept bore to facilitate cable installation & protect cables when installed
- All round teeth give high pull off strength 70kg with FPAH21
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- Available in Black or Grey (RAL 7031)
- EN 45545 HL3 and NFPA compliant



FPA		FPA		FPA90				
straight swivel brass external thread		straight swivel brass internal thread		90° elbow swivel brass external thread				
One piece, fast fit, swivel, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.		One piece, fast fit, swivel, nickel plated brass internal threaded fitting.		One piece, fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.				
IP66		IP66		IP66				
								
NPB Ext Metric	NPB Ext PG	NPB Int Metric		NPB Ext Metric	NPB Ext PG	nominal size (mm)	OD mm	European (NW) sizes
FPA13-BM16	FPA13-BPG9	FPA13-BFM16		FPA13-BM16-90	FPA13-BPG9-90	10	10.0	7
						10		7
						11	11.5	8
						13	13.0	10
						13		10
						13		10
FPA16-BM16	FPA16-BPG9	FPA16-BFM16		FPA16-BM16-90	FPA16-BPG9-90	16	15.8	12
FPA16-BM20	FPA16-BPG11	FPA16-BFM20		FPA16-BM20-90	FPA16-BPG11-90	16		12
						16		12
						16		12
						16		12
						18	18.5	14
						18		14
						20	20.0	
FPA21-BM20	FPA21-BPG13	FPA21-BFM20		FPA21-BM20-90	FPA21-BPG13-90	21	21.2	17
	FPA21-BPG16				FPA21-BPG16-90	21		17
						21		17
						25	25.0	
FPA28-BM25	FPA28-BPG21	FPA28-BFM25		FPA28-BM25-90	FPA28-BPG21-90	28	28.5	23
						28		23
FPA34-BM32	FPA34-BPG29	FPA34-BFM32		FPA34-BM32-90	FPA34-BPG29-90	34	34.5	29
						34		29
FPA42-BM40	FPA42-BPG36	FPA42-BFM40		FPA42-BM40-90	FPA42-BPG36-90	42	42.5	36
FPA42-BM50				FPA42-BM50-90		42		36
FPA54-BM50	FPA54-BPG48*	FPA54-BFM50		FPA54-BM50-90	FPA54-BPG48-90*	54	54.5	48
FPA54-BM63				FPA54-BM63-90		54		48
FPA67-BM63						67	67.0	56

Standards



BS EN IEC 61386





FPA system brass threaded

Construction: Nylon (PA66) moulded fitting with nickel plated brass swivel thread.

Colour: Black or Grey.



Fittings

			FPA90		FPA45		FPA45	
			90° elbow swivel brass internal thread		45° elbow swivel brass external thread		45° elbow swivel brass internal thread	
			One piece, fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting.		One piece, fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.		One piece, fast fit, swivel, 45 degree elbow, nickel plated brass internal threaded fitting.	
			IP66		IP66		IP66	
								
			NPB Int Metric		NPB Ext Metric NPB Ext PG		NPB Int Metric	
European (NW) sizes	nominal size (mm)	OD mm						
7	10	10.0						
7	10							
8	11	11.5						
10	13	13.0	FPA13-BFM16-90					
10	13							
10	13							
12	16	15.8	FPA16-BFM16-90 FPA16-BFM20-90		FPA16-BM16-45 FPA16-BM20-45		FPA16-BPG13-45 FPA16-BPG16-45	
12	16						FPA16-BFM20-45	
12	16							
12	16							
14	18	18.5						
14	18							
	20	20.0						
17	21	21.2	FPA21-BFM20-90		FPA21-BM20-45		FPA21-BPG13-45 FPA21-BPG16-45	
17	21						FPA21-BFM20-45	
17	21							
	25	25.0						
23	28	28.5	FPA28-BFM25-90		FPA28-BM25-45		FPA28-BPG21-45	
23	28						FPA28-BFM25-45	
29	34	34.5	FPA34-BFM32-90		FPA34-BM32-45		FPA34-BPG29-45	
29	34						FPA34-BFM32-45	
36	42	42.5	FPA42-BFM50-90		FPA42-BM40-45 FPA42-BM50-45		FPA42-BPG36-45	
36	42						FPA42-BFM50-45	
48	54	54.5	FPA54-BFM50-90		FPA54-BM50-45 FPA54-BM63-45		FPA54-BPG48-45*	
48	54						FPA54-BFM50-45	
56	67	67.0						

Ordering Notes

* Indicates parts made to order on request

• NPB = Nickel Plated Brass

• Available on request:

- colour Grey, other threads
- for brass locknuts and sealing washers see accessories, page 128
- EMC braid clamp version, see page 124



properties

- 1 part fast fit
- IP rating: **of conduit & fitting: IP66**
of cable gland: IP68 (10 bar) + IP69
- Vibration & shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range:
conduit fitting: -50°C to +135°C
cable gland: -40°C to +100°C static
-20°C to +100°C dynamic
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- **Refer to accessories for clamping range page 129**



FPA	FPA90	FPA45
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<p>cable gland</p> <p>One piece, fast fit, swivel, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.</p>	<p>cable gland</p> <p>One piece, fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.</p>	<p>cable gland</p> <p>One piece, fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.</p>
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			nominal size (mm)	OD mm	European (NW) sizes
			10	10.0	7
			10		7
			11	11.5	8
			13	13.0	10
			13		10
			13		10
			16	15.8	12
			16		12
			16		12
			16		12
			18	18.5	14
			18		14
			20	20.0	
			21	21.2	17
			21		17
			21		17
			25	25.0	
			28	28.5	23
			28		23
			34	34.5	29
			34		29
			42	42.5	36
			42		36
			54	54.5	48
			54		48
			67	67.0	56

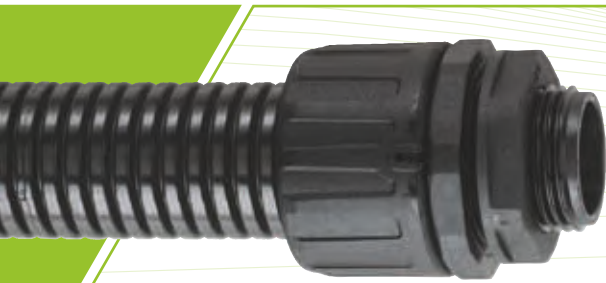
Note: PG thread versions and EMC Cable Gland version on request.

Standards



BS EN IEC 61386





FPAX system nylon

Construction: Nylon (PA66) moulded fitting incorporating internal elastomeric seal.

Colour: Black or Grey* on request



Fittings

			FPAX	FPAX - FPAX	FPAX	FPAX		
			straight external thread	coupler	straight UNEF swivel internal thread	flange		
			Fast fit, external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.	Fast fit coupler to join corrugated conduits. Also available in FPA and FPAU versions.	Fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.	Fast fit fitting with nylon swivel flange with additional conduit seal and with 'O' ring face seal.		
			IP66 IP67 IP68 IP69	IP66 IP67 IP68 IP69	IP66 IP67 IP68 IP69	IP66 IP67 IP68 IP69		
european (NW) sizes nominal size (mm) OD mm								
7	10	10.0						
7	10							
8	11	11.5						
10	13	13.0	FPAX13-M16 FPAX13-PG9	FPAX16-FPAX16				
10	13							
10	13							
12	16	15.8	FPAX16-M16 FPAX16-PG9 FPAX16-038		FPAX16-BU075 (3/4")	FPAX16-FL		
12	16		FPAX16-M20 FPAX16-PG11 FPAX16-050		FPAX16-BU088 (7/8")			
12	16		FPAX16-PG13		FPAX16-BU100 (1")			
12	16		FPAX16-PG16		FPAX16-BU119 (1 1/16")			
14	18	18.5						
14	18							
	20	20.0						
17	21	21.2	FPAX21-M20 FPAX21-PG13 FPAX21-050	FPAX21-FPAX21	FPAX21-BU100 (1")	FPAX21-FL		
17	21		FPAX21-PG16		FPAX21-BU119 (1 1/16")			
17	21				FPAX21-BU125 (1 3/8")			
	25	25.0						
23	28	28.5	FPAX28-M25 FPAX28-PG21 FPAX28-075	FPAX28-FPAX28	FPAX28-BU138 (1 3/8")	FPAX28-FL		
23	28		FPAX28-M32 FPAX28-PG29		FPAX28-BU144 (1 7/8")			
29	34	34.5	FPAX34-M32 FPAX34-PG29 FPAX34-100	FPAX34-FPAX34	FPAX34-BU144 (1 7/8")	FPAX34-FL		
29	34		FPAX34-M40					
36	42	42.5	FPAX42-M40 FPAX42-PG36 FPAX42-125	FPAX42-FPAX42	FPAX42-BU200 (2")	FPAX42-FL		
36	42		FPAX42-M50 FPAX42-150		FPAX42-BU225 (2 1/4")			
48	54	54.5	FPAX54-M50 FPAX54-PG42 FPAX54-150	FPAX54-FPAX54	FPAX54-BU200 (2")			
48	54		FPAX54-M63 FPAX54-PG48 FPAX54-200		FPAX54-BU225 (2 1/4")			
56	67	67.0	FPAX67-M63 FPAX67-200					

Ordering Notes

- * Indicates parts made to order on request
- NPB = Nickel Plated Brass

- Available on request:
 - other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braid clamp version see page 124



properties

- Fast fit
- IP rating: IP66 + IP67 + IP68 (2 bar) + IP69
- Supplied with additional conduit seal and face seal
- Face seal details:
 - Metric Nylon threads supplied with retained Polyester Elastomer Washer
 - NPT and PG Nylon threads supplied with Neoprene Washer
- Brass threads supplied with Fibre Washer
- UNEF, Flange and Cable Glands supplied with O-ring
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Metric nylon threads supplied complete with glass reinforced nylon locknuts
- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring face seal
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- EN 45545 HL3 and NFPA130 compliant

FPAX90			FPAX90			FPAX90					
90° elbow external thread			90° elbow UNEF swivel internal thread			flange					
Fast fit, external threaded 90 degree elbow fitting with additional conduit seal. Suitable for knockouts.			Fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.			Fast fit 90 degree elbow fitting with nylon swivel flange with additional conduit seal with 'O' ring face seal.					
											
											
Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread	Flange				nominal size (mm)	OD mm	European (NW) sizes
FPAX13-M16-90			FPAX13-PG9-90						10	10.0	7
FPAX16-M16-90			FPAX16-PG9-90			FPAX16-BU075-90 (3/4")			10		7
FPAX16-M20-90			FPAX16-PG11-90			FPAX16-BU088-90 (7/8")			11	11.5	8
FPAX16-M20-90			FPAX16-PG13-90			FPAX16-BU100-90 (1")			13	13.0	10
			FPAX16-BU119-90 (1 1/16")			FPAX16-FL-90			13		10
									13		10
									16	15.8	12
									16		12
									16		12
									16		12
									18	18.5	14
									18		14
									20	20.0	
FPAX21-M20-90			FPAX21-PG13-90			FPAX21-BU100-90 (1")			21	21.2	17
FPAX21-M20-90			FPAX21-PG16-90			FPAX21-BU119-90 (1 1/16")			21		17
						FPAX21-BU125-90 (1 1/4")			21		17
									25	25.0	
FPAX28-M25-90			FPAX28-PG21-90			FPAX28-BU138-90 (1 3/8")			28	28.5	23
FPAX28-M25-90			FPAX28-PG21-90			FPAX28-BU144-90 (1 1/2")			28		23
FPAX28-M25-90			FPAX28-PG21-90			FPAX28-BU144-90 (1 1/2")			28		23
FPAX34-M32-90			FPAX34-PG29-90			FPAX34-BU144-90 (1 1/2")			34	34.5	29
FPAX34-M32-90			FPAX34-PG29-90						34		29
FPAX42-M40-90			FPAX42-PG36-90			FPAX42-BU200-90 (2")			42	42.5	36
FPAX42-M40-90			FPAX42-PG36-90			FPAX42-BU225-90 (2 1/4")			42		36
FPAX42-M40-90			FPAX42-PG36-90						42		36
FPAX54-M50-90			FPAX54-PG48-90			FPAX54-BU200-90 (2")			54	54.5	48
FPAX54-M50-90			FPAX54-PG48-90			FPAX54-BU225-90 (2 1/4")			54		48
FPAX54-M50-90			FPAX54-PG48-90						54		48
FPAX54-M63-90			FPAX54-PG48-90						67	67.0	56

Standards





FPAX system nylon & brass threaded



Construction: Nylon (PA66) moulded fitting incorporating internal elastomeric seal.

Construction: Nylon (PA66) moulded fitting with swivel metal thread. External and internal metallic threads are made from nickel plated brass and incorporate an internal elastomeric seal.

Colour: Black or Grey* on request.

Fittings

			FPAX45			FPAX45			FPAX45					
			45° elbow external thread			45° elbow UNEF swivel internal thread			flange					
			Fast fit, external threaded 45 degree elbow fitting with additional conduit seal. Suitable for knockouts.			Fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.			Fast fit 45 degree elbow fitting with nylon swivel flange with additional conduit seal and 'O' ring face seal.					
			IP66	IP67	IP68	IP69	IP66	IP67	IP68	IP69	IP66	IP67	IP68	IP69
			Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread		Flange					
european (NW) sizes nominal size (mm) OD mm	7	10	10.0											
	7	10												
	8	11	11.5											
	10	13	13.0											
	10	13												
	10	13												
	12	16	15.8	FPAX16-M20-45	FPAX16-PG13-45	FPAX16-050-45	FPAX16-BU075-45	(3/4")	FPAX16-FL-45					
	12	16					FPAX16-BU088-45	(7/8")						
	12	16					FPAX16-BU100-45	(1")						
	12	16					FPAX16-BU119-45	(1 3/16")						
	14	18	18.5											
	14	18												
		20	20.0											
	17	21	21.2	FPAX21-M20-45	FPAX21-PG13-45	FPAX21-050-45	FPAX21-BU100-45	(1")	FPAX21-FL-45					
	17	21					FPAX21-BU119-45	(1 3/16")						
	17	21					FPAX21-BU125-45	(1 1/4")						
	25	25.0												
23	28	28.5	FPAX28-M25-45	FPAX28-PG21-45	FPAX28-075-45	FPAX28-BU138-45	(1 3/8")	FPAX28-FL-45						
23	28					FPAX28-BU144-45	(1 7/16")							
29	34	34.5	FPAX34-M32-45	FPAX34-PG29-45	FPAX34-100-45	FPAX34-BU144-45	(1 7/16")	FPAX34-FL-45						
29	34													
36	42	42.5	FPAX42-M50-45	FPAX42-PG36-45	FPAX42-150-45	FPAX42-BU200-45	(2")	FPAX42-FL-45						
36	42					FPAX42-BU225-45	(2 1/4")							
48	54	54.5	FPAX54-M50-45	FPAX54-150-45		FPAX54-BU200-45	(2")							
48	54					FPAX54-BU225-45	(2 1/4")							
56	67	67.0												

Ordering Notes

- Specify Black or Grey (B=Black, G=Grey)
eg: FPAX16-M20-45B
- NPB = Nickel Plated Brass
- Available on request:
 - other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braid clamp version, see page 124



properties

- Fast fit
- IP rating: IP66 + IP67 + IP68 (2 bar) + IP69
- Supplied with additional conduit seal and face seal
- Face seal details:
 - Metric Nylon threads supplied with retained Polyester Elastomer Washer
 - NPT and PG Nylon threads supplied with Neoprene Washer
 - Brass threads supplied with Fibre Washer
 - UNEF, Flange and Cable Glands supplied with O-ring
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Metric nylon threads supplied complete with glass reinforced nylon locknuts
- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring face seal
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- EN 45545 HL3 and NFPA130 compliant

FPAX		FPAX		FPAX90										
straight swivel brass external thread		straight swivel brass internal thread		90° elbow swivel brass external thread										
Fast fit, swivel, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.		Fast fit, swivel, nickel plated brass internal threaded fitting with additional conduit seal.		Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.										
IP66	IP67	IP68	IP69	IP66	IP67	IP68	IP69	IP66	IP67	IP68	IP69			
									nominal size (mm)	OD mm	European (NW) sizes			
NPB Ext Metric	NPB Ext PG	NPB Int Metric	NPB Int Metric	NPB Ext Metric	NPB Ext PG									
FPAX13-BM16	FPAX13-BPG9	FPAX13-BFM16	FPAX13-BFM16	FPAX13-BM16-90	FPAX13-BPG9-90	10	10.0	7						
						10		7						
						11	11.5	8						
						13	13.0	10						
						13		10						
						13		10						
FPAX16-BM16	FPAX16-BPG9	FPAX16-BFM16	FPAX16-BFM16	FPAX16-BM16-90	FPAX16-BPG9-90	16	15.8	12						
FPAX16-BM20	FPAX16-BPG11	FPAX16-BFM20	FPAX16-BFM20	FPAX16-BM20-90	FPAX16-BPG11-90	16		12						
						16		12						
						16		12						
						16		12						
						18	18.5	14						
						18		14						
						20	20.0							
FPAX21-BM20	FPAX21-BPG13	FPAX21-BFM20	FPAX21-BFM20	FPAX21-BM20-90	FPAX21-BPG13-90	21	21.2	17						
	FPAX21-BPG16				FPAX21-BPG16-90	21		17						
						21		17						
						25	25.0							
FPAX28-BM25	FPAX28-BPG21	FPAX28-BFM25	FPAX28-BFM25	FPAX28-BM25-90	FPAX28-BPG21-90	28	28.5	23						
						28		23						
FPAX34-BM32	FPAX34-BPG29	FPAX34-BFM32	FPAX34-BFM32	FPAX34-BM32-90	FPAX34-BPG29-90	34	34.5	29						
						34		29						
FPAX42-BM40	FPAX42-BPG36	FPAX42-BFM40	FPAX42-BFM40	FPAX42-BM40-90	FPAX42-BPG36-90	42	42.5	36						
FPAX42-BM50				FPAX42-BM50-90		42		36						
FPAX54-BM50	FPAX54-BPG48*	FPAX54-BFM50	FPAX54-BFM50	FPAX54-BM50-90	FPAX54-BPG48-90*	54	54.5	48						
FPAX54-BM63				FPAX54-BM63-90		54		48						
						67	67.0	56						

Standards





FPAX system brass threaded

Construction: Nylon (PA66) moulded fitting with swivel metal thread. External and internal metallic threads are made from nickel plated brass and incorporate an internal elastomeric seal.

Colour: Black.



Fittings

			FPAX90	FPAX45	FPAX45
			90° elbow swivel brass internal thread	45° elbow swivel brass external thread	45° elbow swivel brass internal thread
			Fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting with additional conduit seal.	Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.	Fast fit, swivel, 45 degree elbow, nickel plated brass internal threaded fitting with additional conduit seal.
			IP66 IP67 IP68 IP69	IP66 IP67 IP68 IP69	IP66 IP67 IP68 IP69
european (NW) sizes nominal size (mm) OD mm					
			NPB Int Metric	NPB Ext Metric NPB Ext PG	NPB Int Metric
7	10	10.0			
7	10				
8	11	11.5			
10	13	13.0	FPAX13-BFM16-90		
10	13				
10	13				
12	16	15.8	FPAX16-BFM16-90 FPAX16-BFM20-90	FPAX16-BM16-45 FPAX16-BM20-45	FPAX16-BPG13-45 FPAX16-BPG16-45
12	16				FPAX16-BFM20-45
12	16				
12	16				
14	18	18.5			
14	18				
	20	20.0			
17	21	21.2	FPAX21-BFM20-90	FPAX21-BM20-45	FPAX21-BPG13-45 FPAX21-BPG16-45
17	21				FPAX21-BFM20-45
17	21				
	25	25.0			
23	28	28.5	FPAX28-BFM25-90	FPAX28-BM25-45	FPAX28-BPG21-45
23	28				FPAX28-BFM25-45
29	34	34.5	FPAX34-BFM32-90	FPAX34-BM32-45	FPAX34-BPG29-45
29	34				FPAX34-BFM32-45
36	42	42.5	FPAX42-BFM50-90	FPAX42-BM40-45 FPAX42-BM50-45	FPAX42-BPG36-45
36	42				FPAX42-BFM50-45
48	54	54.5	FPAX54-BFM50-90	FPAX54-BM50-45 FPAX54-BM63-45	FPAX54-BPG48-45*
48	54				FPAX54-BFM50-45
56	67	67.0			

Ordering Notes

- * Indicates parts made to order on request
- NPB = Nickel Plated Brass

- **Available on request:**
 - other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braid clamp version, see page 124

properties

- Fast fit
- IP rating: for conduit & fitting IP66 + IP67 + IP68 (2 bar) + IP69 for cable gland: IP68 (10 bar) + IP69
- Supplied with additional conduit seal & face seal
- Face seal details:
 - Metric Nylon threads supplied with retained Polyester Elastomer Washer
 - NPT and PG Nylon threads supplied with Neoprene Washer
 - Brass threads supplied with Fibre Washer

- UNEF, Flange and Cable Glands supplied with O-ring
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed

- Suitable for fine and coarse pitch conduits
- Temperature range:
 - conduit fitting: -50°C to +135°C
 - cable gland: -40°C to +100°C static
 - 20°C to +100°C dynamic
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- Refer to accessories for clamping range page 129
- EN 45545 HL3 and NFPA compliant

FPAX	NEW	FPAX90	NEW	FPAX45	NEW
cable gland Fast fit, swivel, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.		cable gland Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.		cable gland Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.	
IP66 IP67 IP68 IP69		IP66 IP67 IP68 IP69		IP66 IP67 IP68 IP69	
					
NPB Metric		NPB Metric		NPB Metric	

			nominal size (mm)	OD mm	European (NW) sizes
			10	10.0	7
			10		7
			11	11.5	8
			13	13.0	10
			13		10
			13		10
			16	15.8	12
			16		12
			16		12
			16		12
			18	18.5	14
			18		14
			20	20.0	
			21	21.2	17
			21		17
			21		17
			25	25.0	
			28	28.5	23
			28		23
			34	34.5	29
			34		29
			42	42.5	36
			42		36
			54	54.5	48
			54		48
			67	67.0	56

Note: PG thread versions and EMC Cable Gland version on request.

Standards



Technical Drawing





ULTRA™ system

The World's Best Conduit Fitting

NEW

Construction: Nylon (PA66) moulded fittings featuring Integrated Sealing Technology

Construction: Nylon (PA66) moulded fittings featuring Integrated Sealing Technology with nickel plated brass swivel threads




Colour: 2 Tone Colour - Black and Grey.

Integrated Sealing Technology

EXTRA LOW FIRE HAZARD **

IP66 IP67 IP68 IP69

Fittings ULTRA™ system straight

			FPAU 		FPAU 		FPAU 						
			straight external thread		straight UNEF swivel internal thread		straight swivel brass external thread						
			One piece fast fit, external threaded fitting with integrated conduit seal. Suitable for knockouts or threaded entries.		One piece fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with integrated conduit seal.		One piece fast fit, swivel, nickel plated brass external threaded fitting with integrated conduit seal. Suitable for knockouts or threaded entries.						
			IP66	IP67	IP68	IP69	IP66	IP67	IP68	IP69			
european (NW) sizes	nominal size (mm)	OD mm	Ext Metric		Ext NPT		Int UNEF		Thread		NPB Ext Metric	NPB Ext PG	NPB Ext NPT
			7	10	10.0								
7	10												
8	11	11.5											
10	13	13.0	FPAU13-M16							FPAU13-BM16	FPAU13-BPG9		
10	13												
10	13												
12	16	15.8	FPAU16-M16	FPAU16-038	FPAU16-050	FPAU16-BU075	(3/4")	FPAU16-BM16	FPAU16-BPG9	FPAU16-B038*			
12	16		FPAU16-M20	FPAU16-050		FPAU16-BU088	(7/8")	FPAU16-BM20	FPAU16-BPG11	FPAU16-B050*			
12	16					FPAU16-BU100	(1")						
12	16					FPAU16-BU119	(1 3/16")						
14	18	18.5											
14	18												
	20	20.0											
17	21	21.2	FPAU21-M20	FPAU21-050		FPAU21-BU100	(1")	FPAU21-BM20	FPAU21-BPG13	FPAU21-B050*			
17	21		FPAU21-M25			FPAU21-BU119	(1 3/16")		FPAU21-BPG16				
17	21					FPAU21-BU125	(1 1/4")						
	25	25.0											
23	28	28.5	FPAU28-M25	FPAU28-075		FPAU28-BU138	(1 3/8")	FPAU28-BM25	FPAU28-BPG21	FPAU28-B075*			
23	28		FPAU28-M32										
29	34	34.5	FPAU34-M32	FPAU34-100		FPAU34-BU144	(1 7/16")	FPAU34-BM32	FPAU34-BPG29	FPAU34-B100*			
29	34		FPAU34-M40										
36	42	42.5	FPAU42-M40	FPAU42-125		FPAU42-BU200	(2")	FPAU42-BM40	FPAU42-BPG36	FPAU42-B125*			
36	42		FPAU42-M50	FPAU42-150		FPAU42-BU225	(2 1/4")	FPAU42-BM50		FPAU42-B150*			
48	54	54.5	FPAU54-M50	FPAU54-150		FPAU54-BU200	(2")	FPAU54-BM50		FPAU54-B150*			
48	54		FPAU54-M63	FPAU54-200		FPAU54-BU225	(2 1/4")	FPAU54-BM63	FPAU54-BPG48*	FPAU54-B200*			

Ordering Notes

- * Indicates parts made to order on request
- NPB = Nickel Plated Brass
- Available on request:
 - other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braid clamp version see page 124

Fine Pitch



Coarse Pitch






properties

- Fast fit - True one piece component
- IP rating: for conduit & fitting
IP66 + IP67 + IP68 (2 bar) + IP68 (72hrs @ 1m) + IP69
- PA66 Nylon moulded fitting
- Nylon threads supplied complete with glass reinforced nylon locknut
- Metallic threads made from Nickel Plated Brass
- Face seal details:
 - **Metric Nylon threads supplied with retained Polyester Elastomer Washer**
 - **NPT and Metric Brass threads supplied with retained Fibre Washer**

- **PG Brass threads supplied with Fibre Washer**
- **UNEF, Flange and Cable Glands supplied with O-ring**
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Suitable for fine and coarse pitch conduits

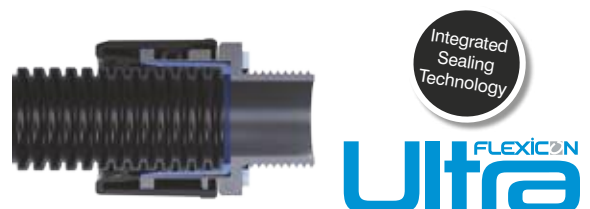
- Temperature range: **conduit fitting: -50°C to +135°C**
- Low Fire Hazard (LFH) see page 149
- Halogen, sulphur and phosphorus free
- UV resistant
- Swivel threads allow assembly without twisting of cables
- EN 45545 HL3 and NFPA 130 compliant

FPAU	FPAU	FPAU - FPAU			
straight swivel brass internal thread	flange	coupler			
<p>One piece fast fit, swivel, nickel plated brass internal threaded fitting with integrated conduit seal or threaded entries.</p> <p>IP66 IP67 IP68 IP69</p> <p></p> <p>NPB Int Metric</p>	<p>One piece fast fit fitting with nylon swivel flange with integrated conduit seal and with 'O' ring face seal.</p> <p>IP66 IP67 IP68 IP69</p> <p></p> <p>Flange</p>	<p>One piece fast fit coupler to join corrugated conduits.</p> <p>IP66 IP67 IP68 IP69</p> <p></p> <p>Coupler</p>			
				nominal size (mm)	
				OD mm	
				European (NW) sizes	
				10	10.0
				10	7
				11	11.5
				13	13.0
				13	10
				13	10
				16	15.8
				16	12
				16	12
				16	12
				18	18.5
				18	14
				20	20.0
				21	21.2
				21	17
				21	17
				25	25.0
				28	28.5
				28	23
				34	34.5
				34	29
				42	42.5
				42	36
				42	36
				54	54.5
				54	48
				67	67.0
					56

Standards & Approvals



Technical Drawing





ULTRA™ system

The World's Best Conduit Fitting

NEW

Construction: Nylon (PA66) moulded fittings featuring Integrated Sealing Technology

Construction: Nylon (PA66) moulded fittings featuring Integrated Sealing Technology with nickel plated brass swivel threads

Colour: 2 Tone Colour - Black and Grey.

Integrated Sealing Technology

EXTRA LOW FIRE HAZARD **

IP66 IP67 IP68 IP69

Fittings ULTRA™ system 90° and 45°

FPAU 90			FPAU 90			FPAU 90			FPAU 90						
90° external thread			90° UNEF swivel internal thread			90° swivel brass external thread			90° swivel brass internal thread						
One piece fast fit, external threaded 90 degree elbow fitting with integrated conduit for knockouts.			One piece fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with integrated conduit seal.			One piece fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting with integrated conduit seal. Suitable for knockouts or threaded entries.			One piece fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting with integrated conduit seal.						
IP66	IP67	IP68	IP66	IP67	IP68	IP66	IP67	IP68	IP66	IP67	IP68				
european (NW) sizes nominal size (mm) OD mm	Ext Metric		Ext NPT		Int UNEF		NPB Ext Metric		NPB Ext PG		NPB Ext NPT		NPB Int Metric		
	7	10	10.0												
	7	10													
	8	11	11.5												
	10	13	13.0	FPAU13-M16-90			FPAU13-BM16-90	FPAU13-BPG9-90					FPAU13-BFM16-90		
	10	13													
	10	13													
	12	16	15.8	FPAU16-M16-90	FPAU16-050-90B	FPAU16-BU075-90 (3/4")	FPAU16-BM16-90	FPAU16-BPG9-90	FPAU16-B050-90*				FPAU16-BFM16-90		
	12	16		FPAU16-M20-90		FPAU16-BU088-90 (7/8")	FPAU16-BM20-90	FPAU16-BPG11-90					FPAU16-BFM20-90		
	12	16				FPAU16-BU100-90 (1")									
	12	16				FPAU16-BU119-90 (1 1/16")									
	14	18	18.5												
	14	18													
	20	20.0													
	17	21	21.2	FPAU21-M20-90	FPAU21-050-90B	FPAU21-BU100-90 (1")	FPAU21-BM20-90	FPAU21-BPG13-90	FPAU21-B050-90*				FPAU21-BFM20-90		
	17	21				FPAU21-BU119-90 (1 1/16")			FPAU21-BPG16-90						
17	21				FPAU21-BU125-90 (1 1/4")										
25	25.0														
23	28	28.5	FPAU28-M25-90	FPAU28-075-90B	FPAU28-BU133-90 (1 3/8")	FPAU28-BM25-90	FPAU28-BPG21-90	FPAU28-B075-90*				FPAU28-BFM25-90			
23	28				FPAU28-BU144-90 (1 1/2")										
29	34	34.5	FPAU34-M32-90	FPAU34-100-90B	FPAU34-BU144-90 (1 1/2")	FPAU34-BM32-90	FPAU34-BPG29-90	FPAU34-B100-90*				FPAU34-BFM32-90			
29	34				FPAU34-BU175-90 (1 3/4")										
36	42	42.5	FPAU42-M40-90	FPAU42-125-90B	FPAU42-BU200-90 (2")	FPAU42-BM40-90	FPAU42-BPG36-90	FPAU42-B125-90*				FPAU42-BFM50-90			
36	42		FPAU42-M50-90	FPAU42-150-90B	FPAU42-BU225-90 (2 1/4")	FPAU42-BM50-90		FPAU42-B150-90*							
48	54	54.5	FPAU54-M50-90	FPAU54-150-90B	FPAU54-BU200-90 (2")	FPAU54-BM50-90	FPAU54-BPG48-90*	FPAU54-B150-90*				FPAU54-BFM50-90			
48	54		FPAU54-M63-90	FPAU54-200-90B	FPAU54-BU225-90 (2 1/4")	FPAU54-BM63-90		FPAU54-B200-90*							

Ordering Notes

- * Indicates parts made to order on request
- NPB = Nickel Plated Brass
- **Available on request:**
 - other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braid clamp version see page 124

How to identify a Flexicon ULTRA™ fitting



- 2 Tone colour - Capnut different to Body
- IP69 and Ultra logo marked on product
- Blue insert seal with visible ribs within capnut
- Retained Face Sealing Washer

Ultra FLEXICON

properties

- Fast fit - True one piece component
- IP rating: for conduit & fitting
IP66 + IP67 + IP68 (2 bar) + IP68 (72hrs @ 1m) + IP69
- PA66 Nylon moulded fitting
- Metallic threads made from Nickel Plated Brass
- Nylon threads supplied complete with glass reinforced nylon locknut
- Face seal details:
 - **Metric Nylon threads supplied with retained Polyester Elastomer Washer**
 - **NPT and Metric Brass threads supplied with retained Fibre Washer**

- **PG Brass threads supplied with Fibre Washer**
- **UNEF, Flange and Cable Glands supplied with O-ring**
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Suitable for fine and coarse pitch conduits

- Temperature range:
conduit fitting: -50°C to +135°C
- Low Fire Hazard (LFH)
 see page 149
- Halogen, sulphur and phosphorus free
- UV resistant
- Swivel threads allow assembly without twisting of cables
- EN 45545 HL3 and NFPA130 compliant

FPAU 90	FPAU 45	FPAU 45			
90° flange	45° flange	45° UNEF swivel internal thread			
One piece fast fit 90 degree elbow fitting with nylon swivel flange with integrated conduit seal and 'O' ring face seal.	One piece fast fit, 45 degree elbow fitting with nylon swivel flange with integrated conduit seal and with 'O' ring face seal.	One piece fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with integrated conduit seal.			
<div style="display: flex; justify-content: space-around;"> <div style="background-color: #92d050; padding: 2px;">IP66</div> <div style="background-color: #92d050; padding: 2px;">IP67</div> <div style="background-color: #92d050; padding: 2px;">IP68</div> <div style="background-color: #92d050; padding: 2px;">IP69</div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #92d050; padding: 2px;">IP66</div> <div style="background-color: #92d050; padding: 2px;">IP67</div> <div style="background-color: #92d050; padding: 2px;">IP68</div> <div style="background-color: #92d050; padding: 2px;">IP69</div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #92d050; padding: 2px;">IP66</div> <div style="background-color: #92d050; padding: 2px;">IP67</div> <div style="background-color: #92d050; padding: 2px;">IP68</div> <div style="background-color: #92d050; padding: 2px;">IP69</div> </div>	 Flange	 Flange	 Int UNEF
			nominal size (mm)	OD mm	european (NW) sizes
			10	10.0	7
			10		7
			11	11.5	8
			13	13.0	10
			13		10
			13		10
FPAU16-FL-90	FPAU16-FL-45	FPAU16-BU075-45 (3/4") FPAU16-BU088-45 (7/8") FPAU16-BU100-45 (1") FPAU16-BU119-45 (1 1/16")	16	15.8	12
			16		12
			16		12
			16		12
			18	18.5	14
			18		14
FPAU21-FL-90	FPAU21-FL-45	FPAU21-BU100-45 (1") FPAU21-BU119-45 (1 1/16") FPAU21-BU125-45 (1 1/4")	21	21.2	17
			21		17
			21		17
			25	25.0	
FPAU28-FL-90	FPAU28-FL-45	FPAU28-BU133-45 (1 1/8") FPAU28-BU144-45 (1 7/16")	28	28.5	23
			28		23
FPAU34-FL-90	FPAU34-FL-45	FPAU34-BU144-45 (1 7/16") FPAU34-BU175-45 (1 3/4")	34	34.5	29
			34		29
FPAU42-FL-90	FPAU42-FL-45	FPAU42-BU200-45 (2") FPAU42-BU225-45 (2 1/4")	42	42.5	36
			42		36
FPAU54-FL-90	FPAU54-FL-45	FPAU54-BU200-45 (2") FPAU54-BU225-45 (2 1/4")	54	54.5	48
			54		48
			67	67.0	56

Standards



Benefits of Barb Construction

- Inherent swivel feature allowing easy connection to another thread for termination, eliminating any dynamic stress on the system
- Reduces wear between the retaining teeth and the conduit, which can often lead to failure



ULTRA™ system

The World's Best Conduit Fitting



Construction: Nylon (PA66) moulded fittings featuring Integrated Sealing Technology

Construction: Nylon (PA66) moulded fittings featuring Integrated Sealing Technology with nickel plated brass swivel threads

Colour: 2 Tone Colour - Black and Grey.



- IP66
- IP67
- IP68
- IP69

Fittings ULTRA™ system 45°

			FPAU 45		FPAU 45			FPAU 45	
			45° external thread		45° swivel brass external thread			45° swivel brass internal thread	
			One piece fast fit, external threaded 45 degree elbow fitting with integrated conduit seal. Suitable for knockouts.		One piece fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting with integrated conduit seal. Suitable for knockouts or threaded entries.			One piece fast fit, swivel, 45 degree elbow fitting, nickel plated brass internal threaded fitting with integrated conduit seal.	
			<ul style="list-style-type: none"> <li style="background-color: #92d050; padding: 2px;">IP66 <li style="background-color: #92d050; padding: 2px;">IP67 <li style="background-color: #92d050; padding: 2px;">IP68 <li style="background-color: #92d050; padding: 2px;">IP69 		<ul style="list-style-type: none"> <li style="background-color: #92d050; padding: 2px;">IP66 <li style="background-color: #92d050; padding: 2px;">IP67 <li style="background-color: #92d050; padding: 2px;">IP68 <li style="background-color: #92d050; padding: 2px;">IP69 			<ul style="list-style-type: none"> <li style="background-color: #92d050; padding: 2px;">IP66 <li style="background-color: #92d050; padding: 2px;">IP67 <li style="background-color: #92d050; padding: 2px;">IP68 <li style="background-color: #92d050; padding: 2px;">IP69 	
			Ext Metric Ext NPT		NPB Ext Metric NPB Ext PG NPB Ext NPT			NPB Int Metric	
European (NW) sizes	nominal size (mm)	OD mm							
7	10	10.0							
7	10								
8	11	11.5							
10	13	13.0							
10	13								
10	13								
12	16	15.8	FPAU16-M20-45	FPAU16-050-45	FPAU16-BM16-45	FPAU16-BPG13-45	FPAU16-B050-45*	FPAU16-BFM20-45	
12	16				FPAU16-BM20-45	FPAU16-BPG16-45			
12	16								
12	16								
14	18	18.5							
14	18								
	20	20.0							
17	21	21.2	FPAU21-M20-45	FPAU21-050-45	FPAU21-BM20-45	FPAU21-BPG13-45	FPAU21-B050-45*	FPAU21-BFM20-45	
17	21					FPAU21-BPG16-45			
17	21								
	25	25.0							
23	28	28.5	FPAU28-M25-45	FPAU28-075-45	FPAU28-BM25-45	FPAU28-BPG21-45	FPAU28-B075-45*	FPAU28-BFM25-45	
23	28								
29	34	34.5	FPAU34-M32-45	FPAU34-100-45	FPAU34-BM32-45	FPAU34-BPG29-45	FPAU34-B100-45*	FPAU34-BFM32-45	
29	34								
36	42	42.5	FPAU42-M50-45	FPAU42-150-45	FPAU42-BM40-45	FPAU42-BPG36-45	FPAU42-B125-45*	FPAU42-BFM50-45	
36	42				FPAU42-BM50-45		FPAU42-B150-45*		
48	54	54.5	FPAU54-M50-45	FPAU54-150-45	FPAU54-BM50-45	FPAU54-BPG48-45*	FPAU54-B150-45*	FPAU54-BFM50-45	
48	54				FPAU54-BM63-45		FPAU54-B200-45*		
56	67	67.0							

Ordering Notes

- * Indicates parts made to order on request
- Available on request:
 - other threads
 - for brass locknuts and sealing washers see accessories, page 128
 - EMC braided clamp version see page 124
- NPB = Nickel Plated Brass

Technical Drawing



properties

- Fast fit - True one piece component
- IP rating: **for conduit & fitting - IP66 + IP67 + IP68 (2 bar) + IP68 (72hrs @ 1m) + IP69 for cable gland - IP68 (10 bar)**
- Nylon threads supplied complete with glass reinforced nylon locknut
- PA66 Nylon moulded fitting
- Metallic threads made from Nickel Plated Brass
- Face seal details:
 - **Metric Nylon threads supplied with retained Polyester Elastomer Washer**
 - **NPT and Metric Brass threads supplied with retained Fibre Washer**

- **PG Brass threads supplied with Fibre Washer**
- **UNEF, Flange and Cable Glands supplied with O-ring**
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Suitable for fine and coarse pitch conduits

- Temperature range: conduit fitting: -50°C to +135°C
- Low Fire Hazard (LFH) see page 149
- Halogen, sulphur and phosphorus free
- UV resistant
- Swivel threads allow assembly without twisting of cables
- EN 45545 HL3 and NFPA130 compliant
- Refer to tables below for clamping range (Cable Range)

ULTRA™ system R Type Cable Strain Relief

STRAIGHT		90° ELBOW		45° ELBOW		nominal size (mm)	OD mm	european (NW) sizes
Integrated Sealing Technology		Integrated Sealing Technology		Integrated Sealing Technology				
cable gland One piece fast fit, swivel, nickel plated brass external threaded cable gland fitting with integrated conduit seal. Suitable for knockouts or threaded entries.		cable gland One piece fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting with integrated conduit seal. Suitable for knockouts or threaded entries.		cable gland One piece fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting with integrated conduit seal. Suitable for knockouts or threaded entries.				
IP66	IP67	IP68	IP69	IP66	IP67	IP68	IP69	
NPB metric	Cable Range (mm)	NPB metric	Cable Range (mm)	NPB metric	Cable Range (mm)	NPB metric	Cable Range (mm)	
FPAU13-BM16-CG-R1	4.0 - 6.5	FPAU13-BM16-CG-R1-90	4.0 - 6.5	FPAU13-BM16-CG-R1-45	4.0 - 6.5			10
FPAU13-BM16-CG-R2	5.0 - 8.0	FPAU13-BM16-CG-R2-90	5.0 - 8.0	FPAU13-BM16-CG-R2-45	5.0 - 8.0			10
FPAU13-BM16-CG-R3	6.5 - 9.5	FPAU13-BM16-CG-R3-90	6.5 - 9.5	FPAU13-BM16-CG-R3-45	6.5 - 9.5			10
FPAU16-BM16-CG-R1	4.0 - 6.5	FPAU16-BM16-CG-R1-90	4.0 - 6.5	FPAU16-BM16-CG-R1-45	4.0 - 6.5			12
FPAU16-BM16-CG-R2	5.0 - 8.0	FPAU16-BM16-CG-R2-90	5.0 - 8.0	FPAU16-BM16-CG-R2-45	5.0 - 8.0			12
FPAU16-BM16-CG-R3	6.5 - 9.5	FPAU16-BM16-CG-R3-90	6.5 - 9.5	FPAU16-BM16-CG-R3-45	6.5 - 9.5			12
		FPAU16-BM20-CG-R4	7.0 - 10.5	FPAU16-BM20-CG-R4-45	7.0 - 10.5			12
								14
								14
								17
FPAU21-BM20-CG-R1	4.0 - 6.5	FPAU21-BM20-CG-R1-90	4.0 - 6.5	FPAU21-BM20-CG-R1-45	4.0 - 6.5			17
FPAU21-BM20-CG-R2	5.0 - 8.0	FPAU21-BM20-CG-R2-90	5.0 - 8.0	FPAU21-BM20-CG-R2-45	5.0 - 8.0			17
FPAU21-BM20-CG-R3	6.5 - 9.5	FPAU21-BM20-CG-R3-90	6.5 - 9.5	FPAU21-BM20-CG-R3-45	6.5 - 9.5			17
								23
FPAU28-BM25-CG-R1	9.0 - 13.0	FPAU28-BM25-CG-R1-90	9.0 - 13.0	FPAU28-BM25-CG-R1-45	9.0 - 13.0			23
FPAU28-BM25-CG-R2	11.0 - 15.5	FPAU28-BM25-CG-R2-90	11.0 - 15.5	FPAU28-BM25-CG-R2-45	11.0 - 15.5			23
FPAU34-BM32-CG-R1	14.0 - 18.0	FPAU34-BM32-CG-R1-90	14.0 - 18.0	FPAU34-BM32-CG-R1-45	14.0 - 18.0			29
FPAU34-BM32-CG-R2	17.0 - 20.5	FPAU34-BM32-CG-R2-90	17.0 - 20.5	FPAU34-BM32-CG-R2-45	17.0 - 20.5			29
FPAU42-BM40-CG-R1	17.0 - 20.5	FPAU42-BM40-CG-R1-90	17.0 - 20.5	FPAU42-BM40-CG-R1-45	17.0 - 20.5			36
FPAU42-BM40-CG-R2	20.0 - 25.0	FPAU42-BM40-CG-R2-90	20.0 - 25.0	FPAU42-BM40-CG-R2-45	20.0 - 25.0			36
FPAU54-BM50-CG-R1	32.0 - 36.0	FPAU54-BM50-CG-R1-90	32.0 - 36.0	FPAU54-BM50-CG-R1-45	32.0 - 36.0			48
FPAU54-BM50-CG-R2	36.0 - 40.0	FPAU54-BM50-CG-R2-90	36.0 - 40.0	FPAU54-BM50-CG-R2-45	36.0 - 40.0			48
								56

Standards



How to identify a Flexicon ULTRA™ fitting



- 2 Tone colour - Capnut different to Body
- IP69 and Ultra logo marked on product
- Blue insert seal with visible ribs within capnut
- Retained Face Sealing Washer



FPA & FPAX T Pieces and Dividers

Construction: Nylon (PA66) moulded fitting.
FPA colour black or grey as standard. FPAX incorporate internal elastomeric seal(s).



Fittings

			FPA	FPA	Reducer/Stop Plug
			T piece with inspection lid Fast fit T piece with inspection lid.	Reducing divider Fast fit reducing divider	Fitting to reduce or blank off any outlets.
			IP66	IP66	IP66
					 R  SP
12	16	13	FPA16T	FPA16-13-13	FPA13-R16 SP-R16
			FPA20T		
17	21	16	FPA21T	FPA21-16-16	FPA16-R21 FPA13-R21 SP-R21
23	28	21	FPA28T	FPA28-21-21	FPA25-R28 FPA21-R28 FPA20-R28 FPA16-R28 FPA13-R28 SP-R28
29	34	28	FPA34T	FPA34-28-28	FPA28-R34 FPA21-R34 FPA16-R34 SP-R34
36	42		FPA42T		FPA34-R42 FPA28-R42 FPA21-R42

european (NW) sizes
 Conduit In (mm)
 Conduit Out x 2 for divider

Ordering Notes

- * Indicates parts made to order on request and may be subject to MOQ and lead time
- **Available on request:**
- other colours

How to read the fittings code



properties

- Fast fit
- IP rating: FPA: IP66
- FPAX: IP66 + IP67 + IP68 (2 bar)
- FPAX Divider: IP66 + IP67 + IP68 (2 bar) + IP69
- Maintains all the benefits of FPA and FPAX fittings
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- All round teeth give high pull off strength
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur & phosphorous free
- Inspection lid facilitates pull through of cables easing installation on the T-piece
- Rounded internal corners protect cable insulation during installation and use
- Incorporates mounting lugs to aid secure fixing
- EN 45545 HL3 and NFPA130 compliant



FPAX			FPAX NEW			Reducer / Stop Plug			
T piece with inspection lid Fast fit T piece with inspection lid and additional seals for enhanced IP rating.			Divider Fast fit reducing divider with additional seals for enhanced IP ratings			Fitting to reduce or blank off any outlets.			
IP66	IP67	IP68	IP66	IP67	IP68	IP66	IP67	IP68	
12	16	13	FPAX16T	FPAX16-13-13			FPAX13-R16 SP-R16		
			FPAX20T						
17	21	16	FPAX21T	FPAX21-16-16			FPAX16-R21 FPAX13-R21 SP-R21		
23	28	21	FPAX28T	FPAX28-21-21			FPAX25-R28 FPAX21-R28 FPAX20-R28 FPAX16-R28 FPAX13-R28 SP-R28		
29	34	28	FPAX34T	FPAX34-28-28			FPAX28-R34 FPAX21-R34 FPAX16-R34 SP-R34		
36	42		FPAX42T	FPAX42-34-34			FPAX34-R42 FPAX28-R42 FPAX21-R42		
48	54	42		FPAX54-42-42					

European (NW) sizes
Conduit In (mm)
Conduit Out x 2 for divider

Standards



BS EN IEC 61386





Flexilok® system

IP66



Construction: Nylon (PA66) moulded fitting.

- One piece fast fit
- Slim design
- IP rating: IP66
- Anti-vibration and tamper resistant
- Pull off strength with:
(FLK21 - FPAS21 25kg)
(FLK21 - FPAL21 20kg)
- Can be removed using a screwdriver
- Suitable for fine and coarse pitch conduits
- Temperature range -40°C to +120°C
- **Metric threads supplied complete with locknuts**
- Low Fire Hazard (LFH), see page 149
- Halogen, sulphur and phosphorus free
- Available in Black, Grey (RAL 7031) and white, see page 71
- 42mm and 54mm feature 4 teeth for added strength

Fittings

			FLK		FLK		FLK-FLK				
			straight external thread		Push in		coupler				
			Nylon, one piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.		Simple, one piece, push in fitting suitable for knockouts with no need for locknuts. Ideal for use when enclosure access is restricted.		One piece, slim, fast fit coupler for joining 2 conduits together.				
			IP66		IP66		IP66				
european (NW) sizes	nominal size (mm)	OD mm									
				Ext Metric	Ext PG					Coupler	
			7	10	10.0	FLK10-M12	FLK10-PG7				
			7	10							
			8	11	11.5						
			10	13	13.0	FLK13-M16	FLK13-PG9				
			10	13							
			10	13							
			12	16	15.8	FLK16-M16	FLK16-PG11	FLK16-PL20		FLK16-FLK16	
			12	16		FLK16-M20	FLK16-PG13				
			12	16							
			12	16							
			14	18	18.5						
			14	18							
				20	20.0	FLK20-M20		FLK20-PL20		FLK20-FLK20	
			17	21	21.2	FLK21-M20	FLK21-PG16	FLK21-PL20		FLK21-FLK21	
17	21										
17	21										
	25	25.0	FLK25-M25		FLK25-PL25		FLK25-FLK25				
23	28	28.5	FLK28-M25	FLK28-PG21	FLK28-PL25		FLK28-FLK28				
23	28										
29	34	34.5	FLK34-M32	FLK34-PG29	FLK34-PL32		FLK34-FLK34				
29	34										
36	42	42.5	FLK42-M40	FLK42-PG36							
36	42		FLK42-M50								
48	54	54.5	FLK54-M50	FLK54-PG48							
48	54		FLK54-M63								

Ordering Notes

- Specify Black or Grey (B=Black, G=Grey) eg. FLK20-M20B
- For white version see page 71
- Details for removal tools can be found on page 131

Also Available

- Push in fitting removal tool - see accessories page 131
- Brass threaded versions
- Two teeth version of 42mm and 54mm available on request

Removal Tool



NOTE: 42mm and 54mm require a removal tool to aid removal if necessary see page 131.

properties

- One piece fast fit
- Slim design
- IP rating: IP66
- Anti-vibration and tamper resistant
- Pull off strength with:
(FLK21 - FPAS21 25kg)
(FLK21 - FPAL21 20kg)
(FLK20-PP - FPP20 13kg)
- Can be removed using a screwdriver
- Suitable for fine and coarse pitch conduits
- Temperature range -40°C to +120°C
- **Metric threads supplied complete with locknuts**
- Halogen, sulphur and phosphorus free
- Available in Black, Grey (RAL 7031) and white, see page 71
- Polypropylene version suitable for acid environments



FLK90	FLK45	FLK-PP
-------	-------	--------

90° elbow external thread One piece, slim, fast fit, external threaded 90 degree elbow fitting suitable for knockouts.	45° elbow external thread One piece, slim, fast fit, external threaded 45 degree elbow fitting suitable for knockouts.	straight external thread Polypropylene, one piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.
--	--	--

IP66

IP66

IP66



Ext Metric Ext PG



Ext Metric



Ext Metric (PP)

						nominal size (mm)	OD mm	European (NW) sizes
						10	10.0	7
						10		7
						11	11.5	8
						13	13.0	10
						13		10
						13		10
FLK16-M16-90 FLK16-M20-90	FLK16-PG11-90		FLK16-M20-45		FLK16-M16-PP	16	15.8	12
						16		12
						16		12
						16		12
						18	18.5	14
						18		14
FLK20-M20-90 FLK21-M20-90	FLK21-PG16-90		FLK20-M20-45 FLK21-M20-45		FLK20-M20-PP	20	20.0	17
						21	21.2	17
						21		17
						21		17
FLK25-M25-90 FLK28-M25-90	FLK28-PG21-90		FLK25-M25-45 FLK28-M25-45		FLK25-M25-PP	25	25.0	23
						28	28.5	23
						28		23
FLK34-M32-90	FLK34-PG29-90		FLK34-M32-45		FLK34-M32-PP	34	34.5	29
						34		29
						42	42.5	36
						42		36
						54	54.5	48
						54		48
						67	67.0	56

Standards





FPL system

upvc corrugated pliable conduit

IP40

IP66

IP67

Conduit

FPL

Construction: Standard weight, upvc, corrugated pliable conduit.

Colour Black, Grey (RAL 7045) or White. (see page 71 in certain sizes.)

Typical Applications: Static connections in buildings.

- High compression strength
- Bends to a small radius
- IP rating:
 - IP40 with MP and T fittings
 - IP66 with FLK fittings
 - IP67 with MPS fittings
- Temperature range -5°C to +70°C
- Self extinguishing
- UV resistant (black)
- Tensile strength:
 - FLK20 25kg
 - MP20 20kg
 - MPS20 15kg

Fittings

FLK

straight external thread

One piece, slim, fast fit, nylon external threaded fitting suitable for knockouts or threaded entries.

IP66

FLK90

90° elbow external thread

One piece, slim, fast fit, nylon external threaded 90 degree elbow fitting suitable for knockouts.

IP66

MP

straight external thread

Straight nylon compression fitting external thread including locknut.

IP40

MPS

straight external thread

Straight nylon compression fitting with seal external thread including locknut.

IP67



MP shown

nominal size (mm)	FPL	part number	real length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
16	FPL16		100	16.0	12.0	25
20	FPL20		50, 100	20.0	15.0	30
25	FPL25		50	25.0	19.5	40
32	FPL32		25	32.0	25.0	50
34	FPL34		25	34.5	27.9	50

metric thread part number	metric thread part number	metric thread part number	metric thread part number
FLK16-M16	FLK16-M16-90	MP-16-M16	MPS-16-M16
FLK16-M20	FLK16-M20-90	MP-16-M20	MPS-16-M20
FLK20-M20	FLK20-M20-90	MP-20-M20	MPS-20-M20
FLK25-M25	FLK25-M25-90	MP-25-M25	MPS-25-M25
FLK32-M32*	FLK32-M32-90*		
FLK34-M32	FLK34-M32-90	MP-32-M32	MPS-32-M32

Ordering Notes

- Specify Black or Grey (B = Black, G = Grey)
- FPL can be used with FPA fittings
- **Available on request:**
 - longer lengths and bulk packaging
 - cut lengths and assemblies, additional sizes
 - alternative threads, other colours
 - heavy duty version

* Indicates parts made to order

Don't Forget



Page 129

Standards

BS EN IEC 61386



White Products

Construction: Polypropylene or upvc conduit system with nylon straight, 90° elbow, coupler and conduit clips options.



Conduit

FPP

For details see page 46

IP66

FPL

For details see page 70

IP66

Fittings

FLK

straight external thread

One piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.

IP66

FLK-90

90° elbow external thread

One piece, slim, fast fit, external threaded 90 degree elbow fitting suitable for knockouts.

IP66

FLK-FLK

coupler

One piece, fast fit, slim coupler to join corrugated conduits.

IP66

FCL

nylon corrugated conduit clip with integral lid

Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent conduit from pulling through.

FCL-P

nylon plain conduit clip with integral lid

Nylon PA66 conduit clip with integral lid for increased security and plain internal diameter for use with rigid conduit or smoothbore flexible conduit.



European (NW) sizes	OD mm	FPP		FPL	
		50m coil	100m coil	50m & 100m coil	100m coil
20	20.0	FPP20W-50M	FPL20W-100M		
25	25.0	FPP25W-50M	FPL25W-50M		
32	32.0	FPP32W-50M*			
34	34.5	FPP34W-50M			

Ext Metric	Ext Metric			
FLK20-M20W	FLK20-M20-90W	FLK20-FLK20W	FCL20W	FCL20W-P
FLK25-M25W	FLK25-M25-90W	FLK25-FLK25W	FCL25W	FCL25W-P
FLK32-M32W*				
FLK34-M32W				

PVC - Contractor pack white

NEW

FPL-CP20W	M20 thread
FPL-CP25W	M25 thread



- 10m of FPL white conduit
- 10 x Flexilok® fittings
- 10 x Locknuts

LPC

NEW

smooth bore, smooth cover, helically formed pvc, flexible conduit with spiral upvc reinforcement and flexible pvc jacket.

IP66 IP67 IP68

Available in 20mm and 25mm sizes. Use with FCL-P clips to secure.

See page 81 for more details

MPC

NEW

straight nylon compression fitting with external thread

IP66 IP67 IP68

2 part compression fitting with internal spigot and all round teeth to grip conduit.

See page 81 for more details

Standards





FPY, FPYS, FPYL, FPYLS system corrugated flexible conduit

properties

- Highly flexible and high fatigue life
- High impact strength and recovers if crushed
- Temperature range -40°C to +120°C
- Highly resistant to solvents and oils
- **Self extinguishing (FPY and FPYS)**
- Halogen, sulphur and phosphorus free

Conduit

FPY	FPYS	FPYL	FPYLS
Construction: Nylon (PA6) corrugated flexible conduit. Colour black.	Construction: Slit nylon (PA6) corrugated flexible conduit. Colour black.	Construction: Nylon (PA6) corrugated flexible conduit. Colour black.	Construction: Slit, light weight nylon (PA6) corrugated flexible conduit. Colour black.
Typical Applications: Automotive	Typical Applications: Automotive looms, harnesses and retrofit.	Typical Applications: Lightweight automotive.	Typical Applications: Lightweight automotive looms, harnesses and retrofit.

european (NW) sizes	nominal size (mm)	pitch	FPY				FPYS				FPYL				FPYLS							
			part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
7	7	F	FPY6B	100	7.1	4.8	10	FPYS6B	50	7.1	4.8	10	FPYL6B*	100	7.1	4.8	10	FPYLS6B*	50	7.1	4.8	10
7	10	F	FPY8B	50	10.0	6.5	15	FPYS8B	50	10.0	6.5	15	FPYL8B*	100	10.0	6.5	15	FPYLS8B*	100	10.0	6.5	15
8	11	F	FPY10B	50	11.5	8.5	20	FPYS10B	50	11.5	8.5	20	FPYL10B*	100	11.5	8.5	20	FPYLS10B*	100	11.5	8.5	20
10	13	F	FPY12B	50	13.0	10.0	25	FPYS12B	50	13.0	10.0	25	FPYL12B*	100	13.0	10.1	25	FPYLS12B*	100	13.0	10.1	25
12	16	F	FPY16B	50	16.1	12.8	35	FPYS16B	50	16.1	12.8	35	FPYL16B*	100	16.1	13.0	35	FPYLS16B*	100	16.1	13.0	35
12	16	F																				
14	18	F	FPY18B	50	18.5	14.2	35	FPYS18B	50	18.5	14.2	35	FPYL18B*	100	18.5	14.4	35	FPYLS18B*	100	18.5	14.4	35
17	21	F	FPY20B	50	21.2	16.9	40	FPYS20B	50	21.2	16.9	40	FPYL20B*	100	21.2	17.1	40	FPYLS20B*	100	21.2	17.1	40
22	25.4	F	FPY25B	50	25.4	21.4	45	FPYS25B	50	25.4	21.4	45	FPYL25B*	100	25.4	21.6	45	FPYLS25B*	100	25.4	21.6	45
23	28	F	FPY28B	50	28.5	23.0	45	FPYS28B	50	28.5	23.0	45	FPYL28B*	50	28.5	23.2	45	FPYLS28B*	50	28.5	23.2	45
29	34	C	FPY32B	25	34.5	28.3	55	FPYS32B	25	34.5	28.3	55	FPYL32B*	50	34.5	28.5	55	FPYLS32B*	50	34.5	28.5	55
36	42	C	FPY40B	25	42.5	35.7	65	FPYS40B	25	42.5	35.7	65	FPYL40B*	50	42.5	35.9	65	FPYLS40B*	50	42.5	35.9	65
48	54	C	FPY50B	25	54.5	47.4	80	FPYS50B	25	54.5	47.4	80	FPYL50B*	50	54.5	47.6	80	FPYLS50B*	50	54.5	47.6	80

F = fine pitch C = coarse pitch

Ordering Notes

- **Metric threads supplied complete with locknuts**
- **Available on request:**
 - reduced outlet T pieces
 - other colours
 - PG threads

* FPYL & FPYLS are made to order on request and maybe subject to MOQ and lead times.



MP, MP90 & T system

IP40

IP67

Construction: Nylon compression fittings.

Colour: Black.

MP fitting with nylon retaining clip provides a pull off strength of 20kg with FPY20 and 15kg with FPYL20 and IP40.

MPS fitting with a neoprene sealing ring provides a pull off strength of 15kg with FPY20 and 10kg with FPYL20 and IP67.



Fittings

MP	MPS	MP90	MPS90	T	TS
straight external thread Straight nylon compression fitting external thread including locknut.	straight external thread Straight nylon compression fitting, with seal, external thread including locknut.	90° elbow external thread 90° elbow nylon compression fitting external thread including locknut.	90° elbow external thread 90° elbow nylon compression fitting, with seal, external thread including locknut.	T Piece fitting T piece nylon compression fitting.	T Piece fitting with seals T piece nylon compression fitting, with seals.
IP40	IP67	IP40	IP67	IP40	IP67



MP shown



MP shown



IP40
T shown

Ext Metric

Ext Metric

Ext Metric

Ext Metric

T Piece

T Piece

european (NW) sizes
nominal size (mm)
OD mm

						7	10	10.0
						8	11	11.5
MP-12-M16	MPS-12-M16			T12X12X12	TS12X12X12	10	13	13.0
MP-16-M16	MPS-16-M16	MP90-16-M16	MPS90-16-M16	T16X16X16	TS16X16X16	12	16	15.8
MP-16-M20	MPS-16-M20	MP90-16-M20	MPS90-16-M20			12	16	
						14	18	18.5
MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20	T20X20X20	TS20X20X20	17	21	21.2
MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25	T25X25X25	TS25X25X25	22	25	25.4
MP-28-M25	MPS-28-M25	MP90-28-M25	MPS90-28-M25			23	28	28.5
MP-32-M32	MPS-32-M32	MP90-32-M32	MPS90-32-M32			29	34	34.5
MP-40-M40		MP90-40-M40				36	42	42.5
MP-50-M50						48	54	54.5

Standards



BS EN IEC 61386





Large diameter systems nylon and polypropylene

NEW

IP40

IP65

IP67⁺

IP68⁺

Conduit

EN 45545-2 NFPA 130

LDFPAL	LDFPAS	LDFPIH	LDFPR	LDFPP
<p>Construction: Light weight nylon (PA6) corrugated flexible conduit.</p> <p>Colour: Black or Grey (RAL 7031).</p> <p>Typical Applications: Machines where lower mechanical protection is required and buildings.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) Highly resistant to solvents and oils Self extinguishing Halogen, sulphur and phosphorus free 	<p>Construction: Standard weight, flame retardant nylon (PA6) corrugated flexible conduit.</p> <p>Colour: Black or Grey (RAL 7031). Orange available on request.*</p> <p>Typical Applications: All types of machinery, public buildings.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) Lloyd's Register Type Approval Low Fire Hazard (LFH), see page 149 UL 94 V2 flame retardancy Halogen, sulphur and phosphorus free UV resistant (black) Abrasion resistant Highly resistant to solvents and oils 	<p>Construction: Heavy weight nylon (PA12) corrugated flexible conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Robots and continual flexing where higher mechanical strength required.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High mechanical strength High impact resistance even at very low temperatures UV resistant Displays self recovery if crushed Temperature range -50°C to +110°C Highly resistant to solvents and oils Self extinguishing Halogen, sulphur and phosphorus free Low Fire Hazard (LFH), see page 149 <p>Also available in extra low fire hazard version - FPIHR see page 45</p>	<p>Construction: Standard weight nylon (highly flame retardant PA6) corrugated flexible conduit.</p> <p>Colour: Black.</p> <p>Typical Applications: Railways, underground and public buildings.</p> <ul style="list-style-type: none"> Highly flexible and high fatigue life High impact strength and recovers if crushed Temperature range -40°C to +120°C (-20°C to +100°C for moving applications) Lloyd's Register Type Approval Extra Low Fire Hazard (LFH) Compliant to LUL Std S1085 UL 94 V0 flame retardancy Halogen, sulphur and phosphorus free UV resistant Abrasion resistant Highly resistant to solvents and oils 	<p>Construction: Standard weight polypropylene, flexible conduit.</p> <p>Colour: Black, Grey (RAL 7031) or White (see page 46)</p> <p>Typical Applications: Buildings, particularly where buried in concrete or plaster.</p> <ul style="list-style-type: none"> Acid resistant Temperature range -20°C to +90°C Self extinguishing

european (NW) sizes nominal size (mm)	LDFPAL					LDFPAS					LDFPIH					LDFPR					LDFPP				
	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
70 80	LDFPAL80	10	80.0	67.0	150	LDFPAS80	10	80.0	67.0	160	LDFPIH80	10	80.0	66.5	170	LDFPR80	10	80.0	67.0	160	LDFPP80	10	80.0	67.0	300
95 106	LDFPAL106*	10	106.0	91.8	210	LDFPAS106	10	106.0	91.5	210	LDFPIH106*	10	106.0	91.0	250	LDFPR106*	10	106.0	91.5	210	LDFPP106*	10	106.0	91.5	400

Refer to page 44 for other materials

Ordering Notes

- Specify black or grey (B = Black, G = Grey)
eg: LDFPAS80B-10M for Black 10m reel
- Available on request:**
 - longer lengths and bulk packaging
 - cut lengths and assemblies
 - alternative conduit material
- + Contact Flexicon for more details
- FCC75 and FCC106 PVC lined plated steel P-clips
- 80mm can be used with F-Clamps - see page 76
- * Indicates parts made to order on request and may be subject to MOQ and lead time

Standards

BS EN IEC 61386





properties

- Suitable for use with Large Diameter conduits
- Material
 - LDMP and LDMPs: nylon PA6
 - FCLAMP: nylon PA66
 - REC: thermoplastic elastomer
- Temperature Range
 - LDMP & LDMPs fittings: -40° to 120°
 - FCLAMP: -50° to 135°
 - REC: -50° to 120°
- UV resistant
- Fire Performance
 - **LDMP and LDMPs:**
 - Halogen, Sulphur & Phosphorous Free
 - Self extinguishing
 - **REC:**
 - Halogen, Sulphur & Phosphorous Free
 - **FCLAMP:**
 - Extra Low Fire Hazard see page 149
 - Halogen, Sulphur & Phosphorous Free
 - Self extinguishing
 - EN45545 HL3 and NFPA 130 compliant
 - For installation instructions see page 142

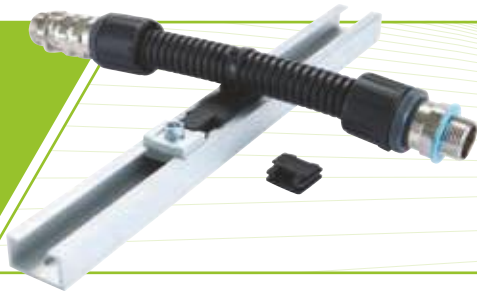
Fittings

LDMP	LDMPs	LDMP90	LDMPs90	FCLAMP	REC	FCC CLIPS
straight flanged nylon clamp fitting Flanged body with 2 clamps.	straight flanged nylon clamp fitting with seals Flanged body with 2 clamps and seals.	90° flanged nylon clamp fitting Flanged 90° body with 2 clamps.	90° flanged nylon clamp fitting with seals Flanged 90° body with 2 clamps and seals.	non-metallic, heavy duty conduit clamp Nylon PA66, conduit fixing clamp for corrugated conduit. Suitable for use with with fine or coarse pitch conduits. Can be used with a range of accessories including cover plates and weld plates (available separately - see page 76).	rubber end cap Thermoplastic elastomer cap used to seal end of conduit. Can be cut to size depending on size of cable. Can be additionally secured using cable tie (not supplied).	plated steel P clip with pvc liner P clip to support and secure conduit.
IP40	IP65, IP67 ⁺ , IP68 ⁺	IP40	IP65			



termination	part number	termination	part number	termination	part number	termination	part number	part number	part number	part number	European (NW) sizes	nominal size (mm)
FL	LDMP-80-FL	FL	LDMPs-80-FL	FL	LDMP90-80-FL	FL	LDMPs90-80-FL	FCLAMP-8-80	REC80	FCC75	70	80
FL	LDMP-106-FL	FL	LDMPs-106-FL	FL	LDMP90-106-FL	FL	LDMPs90-106-FL			FCC106	95	106



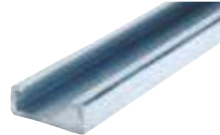


Conduit Fixing range

Clips and Channels



Channel - Low profile



Aluminium
10mm x 25mm

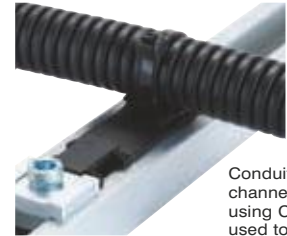
Part No. MCALA-2M

Part No. MCALA-1M

NW Size	Conduit Size (OD) mm	FCL clip for corrugated	FCL clip for plain conduit	Spacer/Cable Tie fixing PA66 black
7	10	FCL10		CS-CT
10	13	FCL13		CS-CT
12	16	FCL16	FCL16-P	CS-CT
14	18	FCL18	FCL18-P	CS-CT
	20	FCL20	FCL20-P	CS-CT
17	21	FCL21	FCL21-P	CS-CT
	25	FCL25	FCL25-P	CS-CT
	26		FCL26-P	CS-CT
23	28	FCL28		CS-CT
	32	FCL32	FCL32-P	CS-CT
	33		FCL33-P	CS-CT
36	34	FCL34		CS-CT
48	42	FCL42		CS-CT
54	54	FCL54		CS-CT

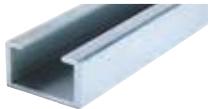


FCL Conduit clips with spacer and secured to channel with End Stops



Conduit secured to channel with Cable Tie using CS-CT. End Stop used to secure position

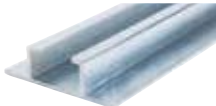
Channel - Standard profile



Aluminium
18mm x 31mm

Part No. MCALB-2M

Part No. MCALB-1M



Elongated Aluminium
18mm x 60mm

Part No. MCALC-2M

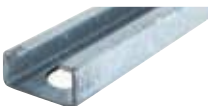
Part No. MCALC-1M



Galvanised Steel
15mm x 30mm

Part No. MCGSB-2M

Part No. MCGSB-1M



Hot Dip Galvanised Steel Slotted
15mm x 30mm

Part No. MCHDGSLSL-2M

Part No. MCHDGSLSL-1M

NW Size	Conduit Size (OD) mm	FCL clip for corrugated conduit	FCL clip for smooth conduit	Spacer/Cable Tie fixing PA66 black	Channel Nut FCL Mount galvanised steel	Channel Nut anodised aluminium
7	10	FCL10		CS-CT	CN-GS-M5-FCL	
10	13	FCL13		CS-CT	CN-GS-M5-FCL	
12	16	FCL16	FCL16-P	CS-CT	CN-GS-M5-FCL	CN-AL-M5
14	18	FCL18	FCL18-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
	20	FCL20	FCL20-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
17	21	FCL21	FCL21-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
	25	FCL25	FCL25-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
	26		FCL26-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
23	28	FCL28		CS-CT	CN-GS-M6-FCL	CN-AL-M6
	32	FCL32	FCL32-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
	33		FCL33-P	CS-CT	CN-GS-M6-FCL	CN-AL-M6
36	34	FCL34		CS-CT	CN-GS-M6-FCL	CN-AL-M6
48	42	FCL42		CS-CT	CN-GS-M6-FCL	CN-AL-M6
54	54	FCL54		CS-CT	CN-GS-M6-FCL	CN-AL-M6



FCLAMP



FCLAMP Kit



Extended Weld Plate galvanised steel



Weld Plate galvanised steel



Cover Plate galvanised steel

NW Size	Conduit Size (OD) mm	FCLAMP	FCLAMP Kit	Extended Weld Plate galvanised steel	Weld Plate galvanised steel	Cover Plate galvanised steel
12	16	FCLAMP-3-16	FCLAMP-KIT16	FCLAMP-EWP3	FCLAMP-WP3	FCLAMP-CP3
17	21	FCLAMP-3-21	FCLAMP-KIT21	FCLAMP-EWP3	FCLAMP-WP3	FCLAMP-CP3
23	28	FCLAMP-4-28	FCLAMP-KIT28	FCLAMP-EWP4	FCLAMP-WP4	FCLAMP-CP4
29	34	FCLAMP-5-34	FCLAMP-KIT34	FCLAMP-EWP5	FCLAMP-WP5	FCLAMP-CP5
36	42	FCLAMP-6-42	FCLAMP-KIT42	FCLAMP-EWP6	FCLAMP-WP6	FCLAMP-CP6
48	54	FCLAMP-7-54	FCLAMP-KIT54	FCLAMP-EWP7	FCLAMP-WP7	FCLAMP-CP7
56	67	FCLAMP-7-67	FCLAMP-KIT67	FCLAMP-EWP7	FCLAMP-WP7	FCLAMP-CP7
80	80	FCLAMP-8-80	FCLAMP-KIT80	FCLAMP-EWP8	FCLAMP-WP8	FCLAMP-CP8

Alternate channel lengths on request. Anodising of Aluminium channel on request. Slotted variants also available. Visit website for more information.

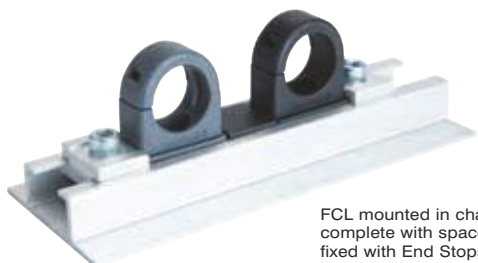
properties

- Suitable for use with flexible, pliable and rigid conduits
- Clips and F-Clamps manufactured from nylon PA66
- Temperature Range -50° to 135°
- UV resistant
- Low Fire Hazard see page 149
- Halogen, Sulphur & Phosphorous Free
- Self extinguishing
- For installation instructions see page 142
- EN45545 HL3 and NFPA 130 compliant
- Slotted channel versions also available - consult website for details



System Overview

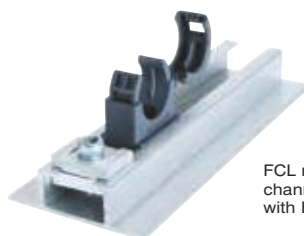
Configurations



FCLAMP mounted in channel complete with spacer and fixed with End Stops



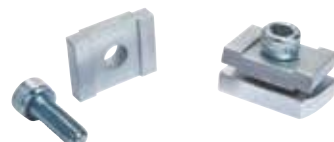
FCLAMP mounted on channel using FCLAMP Mount kits. FCLAMP Clips can be rotated to help route conduits



FCLAMP mounted in channel fixed with End Stop



FCLAMP mounted on channel using FCLAMP Mount kits. FCLAMP Clips can be rotated to any angle to help route conduits



End Stop - Components and complete



Channel Nut FCLAMP Mount - Components and complete



Channel Nut galvanised steel



End Stop anodised aluminium

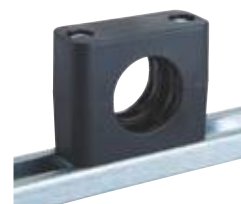


End Stop galvanised steel

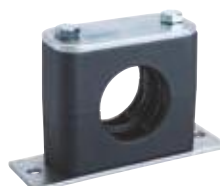
CN-GS-M5	ES-AL	ES-GS
CN-GS-M5	ES-AL	ES-GS
CN-GS-M5	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS
CN-GS-M6	ES-AL	ES-GS



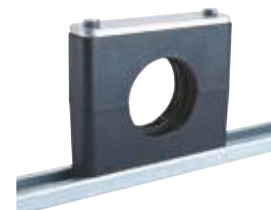
FCLAMP mounted on Weld Plate with Cover Plate



FCLAMP directly mounted on channel using Channel Nuts



FCLAMP mounted on Elongated Weld Plate with Cover Plate



FCLAMP directly mounted on channel using Channel Nuts and Cover Plate



FCLAMP Kit Complete



FCLAMP Kit mounted on channel with Conduit



Channel Nut anodised aluminium

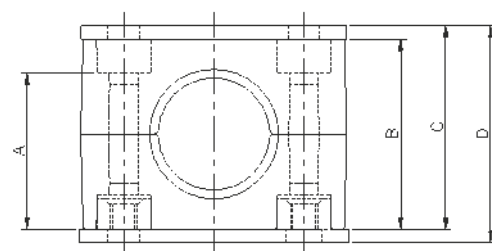


Channel Nut galvanised steel

CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6
CN-AL-M6	CN-GS-M6

Thread Length Requirements - Dimension Table

FCLAMP	A	B	C	D
FCLAMP-3-16	29	36	39	42
FCLAMP-3-21	29	36	39	42
FCLAMP-3-28	35	42	45	48
FCLAMP-3-34	49	56	59	62
FCLAMP-3-42	58	65	68	71
FCLAMP-3-54	85	92	97	102
FCLAMP-3-67	85	92	97	102
FCLAMP-3-80	110	117	124	129



For Stacking Kit please contact Flexicon. Channel Nut galvanised steel for Unistrut type channel. Part number CN-UNI-M6-GS



FPCB system

spiral reinforced pvc

FPCG, FPCGN & FPCBU system

spiral reinforced pvc with special properties



Conduit

FPCB

Construction: Smooth bore, helically formed PVC, flexible conduit with spiral UPVC reinforcement and flexible PVC jacket. Also available in UL recognised version (See ordering notes)

Colour: Black

Typical Applications: Routing of cables within machines.

FPCGN

Construction: Smooth bore, helically formed PVC, flexible conduit with spiral UPVC reinforcement and flexible PVC jacket.

Colour: Green

Typical Applications: As FPCB but where oil resistance is required. UL recognised.

FPCG

Construction: As FPCB except colour grey.

Typical Applications: As FPCB. UL recognised.

FPCBU

Construction: As FPCB except colour blue.

Typical Applications: As FPCB but where high temperature is required. UL recognised.

Fittings

MPC

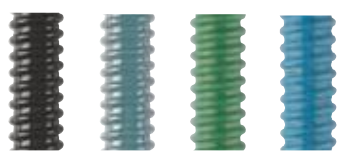
straight nylon compression fitting external thread

2 part compression fitting with internal spigot and all round external teeth to grip conduit. Available in Black or Grey (RAL 7001).



nominal size (mm)	FPC				min inside bend radius (mm)	reel length (m)	outside dia (mm)	inside dia (mm)
	Black part number	Grey (RAL 7001)	Green (RAL 6001)	Blue (RAL 5012)				
12	FPC12B	FPC12G*	FPC12GN*	FPC12BU*	30	14.5	10.0	25
16	FPC16B	FPC16G*	FPC16GN*	FPC16BU*	30	16.5	12.0	25
20	FPC20B	FPC20G*	FPC20GN*	FPC20BU*	30	21.0	16.0	35
25	FPC25B	FPC25G*	FPC25GN*	FPC25BU*	30	27.5	22.0	45
30	FPC30B*	FPC30G*			30	30.5	25.0	55
32	FPC32B	FPC32G*	FPC32GN*	FPC32BU*	10, 30	33.5	28.0	60
40	FPC40B	FPC40G*	FPC40GN*	FPC40BU*	10, 30	41.0	35.0	80
50	FPC50B	FPC50G*	FPC50GN*	FPC50BU*	10, 30	46.4	40.0	105
63	FPC63B	FPC63G*	FPC63GN*	FPC63BU*	10, 30	57.0	50.0	120

metric thread part number	PG thread part number	NPT part number
MPC-12-M16	MPC-12-PG9	
MPC-16-M16	MPC-16-PG11	
MPC-16-M20	MPC-16-PG13	MPC-16-050
MPC-20-M20	MPC-20-PG16	MPC-20-050
MPC-25-M25	MPC-25-PG21	MPC-25-075
MPC-30-M32*	MPC-30-PG29*	
MPC-32-M32	MPC-32-PG29	MPC-32-100
MPC-40-M40	MPC-40-PG36	MPC-40-125
MPC-50-M50	MPC-50-PG42	MPC-50-150
MPC-63-M63	MPC-63-PG48	MPC-63-200



Ordering Notes

- Add reel length eg: FPC20B-30M for 30M
- * Indicates parts made to order on request and may be subject to MOQ and lead time
- For UL recognised black conduit order FPCURB*
- Available on request:
 - additional sizes
 - alternative threads
 - other colours



properties

- Highly flexible
- Accepts torsional movement
- Vibration and shock tested to EN61373 Cat 2
- IP rating: IP65
- Temperature range
 - 5°C to +70°C (FPCB - Black)
 - 20°C to +70°C (FPCG - Grey)
 - 20°C to +70°C (FPCGN - Green)
 - 20°C to +90°C (FPCBU - Blue)
 - 5°C to +70°C (LTS - Silver Grey)
- Metric threads supplied complete with locknuts
- **FPCB (Black) is UV resistant**
- **FPCGN (Green) is oil resistant**
- **FPCBU (Blue) is high temperature**
- Self extinguishing
- **FPCG, FPCGN, FPCBU and FPCURB are UL recognised to UL1696 for use in US and Canada**
- **LTS (Silver Grey) is smooth outer and smooth bore**



MPC90	MPC45	LTS
-------	-------	-----

<p>90° elbow nylon compression fitting external thread</p> <p>2 part compression, 90 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in Black or Grey (RAL 7001).</p> <p>IP65</p>	<p>45° elbow nylon compression fitting external thread</p> <p>2 part compression, 45 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in Black or Grey (RAL 7001).</p> <p>IP65</p>	<p>smooth bore liquid tight sheathing</p> <p>PVC, Silver Grey sheathing ideal for routing cables within machines. IP66 rating when used with MPC fittings.</p>
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metric thread part number	PG thread part number	NPT part number	metric thread part number	NPT part number	LTS part number	reel length (m)	outside dia (mm)	inside dia (mm)	nominal size (mm)
MPC90-16-M16	MPC90-16-PG11								12
MPC90-16-M20	MPC90-16-PG13	MPC90-16-050	MPC45-16-M20	MPC45-16-050	LTS16SG-50M	50	16.5	12	16
MPC90-20-M20	MPC90-20-PG16	MPC90-20-050	MPC45-20-M20	MPC45-20-050	LTS20SG-50M	50	21.0	16	20
MPC90-25-M25	MPC90-25-PG21	MPC90-25-075	MPC45-25-M25	MPC45-25-075	LTS25SG-50M	50	27.5	22	25
MPC90-32-M32	MPC90-32-PG29	MPC90-32-100	MPC45-32-M32	MPC45-32-100	LTS32SG-50M	50	33.5	28	30
MPC90-40-M40	MPC90-40-PG36	MPC90-40-125							32
									40
									50
									63

Standards



* refer to conduit properties for applicable standards

Technical Drawing





LPC system

smooth spiral reinforced pvc

- IP66
- IP67
- IP68
- IP69

Conduit

LPC

Construction: Smooth bore, smooth cover, helically formed pvc, flexible conduit with spiral upvc reinforcement and flexible pvc jacket.

Colour: Black or Grey

Typical Applications: Machines and applications requiring high levels of Ingress protection such as washdown installation.

LPCO

Construction: As LPC except colour Orange.

Typical Applications: As LPC but where high flexibility is required.

LPCGN

Construction: As LPC except colour Green.

Typical Applications: As LPC but where oil resistance is required.

LPCBU

Construction: As LPC except colour Blue.

Typical Applications: As LPC but where high temperature is required.



Also available in Hygienic version in White, Blue and Grey - see page 84

Fittings

FCL-P

non metallic conduit clip

Nylon conduit fixing clip for smooth conduit. Available in Black or Grey (RAL 7001).



nominal size (mm)	LPC	Black part number	Grey (RAL 7001)	Orange (RAL 2008)	Green (RAL 6001)	Blue (RAL 5012)	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number
12	LPC12B	LPC12G*	LPC12O*	LPC12GN*	LPC12BU*	30	14.2	10.0	50		
16	LPC16B	LPC16G	LPC16O	LPC16GN*	LPC16BU*	30	17.8	12.6	50		FCL18-P
16											
20	LPC20B	LPC20G	LPC20O	LPC20GN*	LPC20BU*	10, 30	21.1	16.0	70		FCL21-P
25	LPC25B	LPC25G	LPC25O	LPC25GN*	LPC25BU*	10, 30	26.4	21.0	90		FCL26-P
32	LPC32B	LPC32G	LPC32O	LPC32GN*	LPC32BU*	10, 30	33.1	26.5	140		FCL33-P
40	LPC40B	LPC40G*	LPC40O*	LPC40GN*	LPC40BU*	10, 30	41.8	35.4	190		
50	LPC50B	LPC50G*	LPC50O*	LPC50GN*	LPC50BU*	10, 30	47.9	40.0	240		
63	LPC63B	LPC63G*	LPC63O*	LPC63GN*	LPC63BU*	10, 30	59.7	51.3	270		



Ordering Notes

* Indicates parts made to order on request and may be subject to MOQ and lead time

• **Available on request:**

- additional sizes
- alternative threads
- alternative materials (eg. PU)

- other colours
- conduit couplers
- 45 degree brass elbow
- combined conduit fitting with cable gland, see page 124

Alternatives



properties

- Smooth, wipe clean surface
- Accepts some torsional movement
- IP rating:
 - IP66, IP67 and IP68 with MPC fittings
 - IP66, IP67, IP68 (2 bar) + IP69 with metal C-type compression fittings
- Temperature range
 - 5 °C to +70 °C (LPC and LPCG)
 - 20 °C to +70 °C (LPCO and LPCGN)
 - 20 °C to +90 °C (LPCBU)
- LPCO (Orange) is highly flexible
- LPCGN (Green) is oil resistant
- LPCB (Black) is UV resistant
- Self extinguishing
- Metric nylon fittings supplied complete with locknut
- Vibration and shock tested to EN 61373 Cat 2



MPC	MPC90	MPC45
straight nylon compression fitting external thread	90° elbow nylon compression fitting external thread	45° elbow nylon compression fitting external thread
2 part compression, 90 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in Black or Grey (RAL 7001).	2 part compression, 90 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in Black or Grey (RAL 7001).	2 part compression, 45 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in Black or Grey (RAL 7001).
IP66 IP67 IP68	IP66 IP67 IP68	IP66 IP67 IP68



metric thread part number	PG thread part number	NPT thread part number	metric thread part number	PG thread part number	NPT thread part number	metric thread part number	NPT thread part number	nominal size (mm)
MPC-16-M16	MPC-16-PG11		MPC90-16-M16	MPC90-16-PG11				12
MPC-16-M20	MPC-16-PG13	MPC-16-050	MPC90-16-M20	MPC90-16-PG13	MPC90-16-050	MPC45-16-M20	MPC45-16-050	16
MPC-20-M20	MPC-20-PG16	MPC-20-050	MPC90-20-M20	MPC90-20-PG16	MPC90-20-050	MPC45-20-M20	MPC45-20-050	16
MPC-25-M25	MPC-25-PG21	MPC-25-075	MPC90-25-M25	MPC90-25-PG21	MPC90-25-075	MPC45-25-M25	MPC45-25-075	20
MPC-32-M32	MPC-32-PG29	MPC-32-100	MPC90-32-M32	MPC90-32-PG29	MPC90-32-100	MPC45-32-M32	MPC45-32-100	25
MPC-40-M40	MPC-40-PG36	MPC-40-125	MPC90-40-M40	MPC90-40-PG36	MPC90-40-125			32
MPC-50-M50	MPC-50-PG42	MPC-50-150						40
MPC-63-M63	MPC-63-PG48	MPC-63-200						50
								63

Standards



BS EN IEC 61386



Technical Drawing





LPC system

metallic fittings for use with LPC conduits

- IP66
- IP67
- IP68
- IP69

Fittings

C	C-S	C-90
<p>external metric thread nickel plated brass</p> <p>Multipart compression fitting including elastomeric seal. Can be used for knockout or threaded entries as fitting rotates until tightened.</p>	<p>swivel external thread nickel plated brass</p> <p>Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.</p> <p>Suitable for knockout or threaded entries.</p>	<p>90° external thread nickel plated brass</p> <p>90° multipart compression fitting including elastomeric seal. Can be used for knockouts.</p>
<ul style="list-style-type: none"> <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP66 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP67 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP68 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP69 	<ul style="list-style-type: none"> <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP66 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP67 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP68 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP69 	<ul style="list-style-type: none"> <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP66 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP67 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP68 <li style="background-color: #76b82a; color: white; padding: 2px 5px;">IP69



nominal size (mm)	LPC				LPC	
	for conduit see page 80	metric thread part number	for PG thread size	for NPT thread size	metric thread part number	metric thread part number
12	LPC12	LPC12-M16-C	LPC12-PG9-C		LPC12-M16-S	LPC12-M16-C90
16	LPC16	LPC16-M16-C	LPC16-PG11-C		LPC16-M16-S	LPC16-M16-C90
16		LPC16-M20-C	LPC16-PG13-C	LPC16-050-C (1/2")	LPC16-M20-S	LPC16-M20-C90
20	LPC20	LPC20-M20-C	LPC20-PG16-C	LPC20-050-C (1/2")	LPC20-M20-S	LPC20-M20-C90
25	LPC25	LPC25-M25-C	LPC25-PG21-C	LPC25-075-C (3/4")	LPC25-M25-S	LPC25-M25-C90
32	LPC32	LPC32-M32-C	LPC32-PG29-C	LPC32-100-C (1")	LPC32-M32-S	LPC32-M32-C90
40	LPC40	LPC40-M40-C	LPC40-PG36-C	LPC40-125-C (1 1/4")	LPC40-M40-S	LPC40-M40-C90
50	LPC50	LPC50-M50-C	LPC50-PG42-C	LPC50-150-C (1 1/2")		LPC50-M50-C90
63	LPC63	LPC63-M63-C	LPC63-PG48-C	LPC63-200-C (2")		LPC63-M63-C90

* Please see conduit range information page 80

Ordering Notes

- * Indicates parts made to order on request and may be subject to MOQ and lead time
- **Available on request:**
 - additional sizes
 - alternative threads
 - alternative materials (eg. PU)

- other colours
- conduit couplers
- 45 degree brass elbow
- combined conduit fitting with cable gland, see page 124

Alternatives






see page 78

properties

- Smooth, wipe clean surface
- Accepts some torsional movement
- IP rating:
 - IP66, IP67 and IP68 with MPC fittings
 - IP66, IP67, IP68 (2 bar) + IP69 with metal C-type compression fittings
- Temperature range
 - 5 °C to +70 °C (LPC and LPCG)
 - 20 °C to +70 °C (LPCO and LPCGN)
 - 20 °C to +90 °C (LPCBU)



C-45	CSS	C90-SS	
<p>45° external thread nickel plated brass</p> <p>45° multipart compression fitting including elastomeric seal. Can be used for knockouts.</p>	<p>external thread stainless steel</p> <p>Multipart compression fitting in Stainless Steel (Grade 316L) including elastomeric seal. Can be used for knockout or threaded entries as fitting rotates until tightened.</p>	<p>90° external thread stainless steel</p> <p>90° multipart compression fitting Stainless Steel (Grade 316L) including elastomeric seal. Can be used for knockouts.</p>	
<p>IP66 IP67 IP68 IP69</p>	<p>IP66 IP67 IP68 IP69</p>	<p>IP66 IP67 IP68 IP69</p>	
			
metric thread part number	metric thread part number	metric thread part number	
<p>LPC16-M20-C45</p> <p>LPC20-M20-C45</p> <p>LPC25-M25-C45</p> <p>LPC32-M32-C45</p> <p>LPC40-M40-C45</p> <p>LPC50-M50-C45</p> <p>LPC63-M63-C45</p>	<p>LPC16-M16-CSS</p> <p>LPC16-M20-CSS</p> <p>LPC20-M20-CSS</p> <p>LPC25-M25-CSS</p> <p>LPC32-M32-CSS</p> <p>LPC40-M40-CSS</p> <p>LPC50-M50-CSS</p>	<p>LPC16-M20-CSS90</p> <p>LPC20-M20-CSS90</p> <p>LPC25-M25-CSS90</p> <p>LPC32-M32-CSS90</p>	
			nominal size (mm)
			12
			16
			16
			20
			25
			32
			40
			50
			63

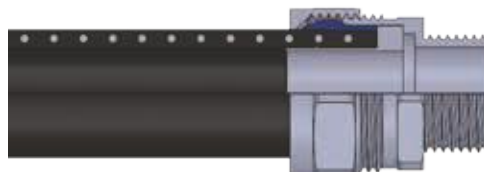
Standards



BS EN IEC 61386



Technical Drawing



LPC-HG system Hygienic Range

NEW

IP66

IP67

IP68
2 bar

IP69

HG
HYGIENIC
RANGE

Conduit

LPC-WFG

Construction: Smooth bore, smooth cover, helically formed PVC, flexible conduit with spiral uPVC reinforcement and flexible PVC jacket.

Colour: White.

Typical Applications: Suitable for repeat contact with all food types, excluding fatty foods, at full temperature.

The flexible PVC is manufactured from FDA approved ingredients and has been independently tested to European Food regulation 10/2011.

LPC-BUFG

Construction: Smooth bore, smooth cover, helically formed PVC, flexible conduit with spiral uPVC reinforcement and flexible PVC jacket.

Colour: Blue.

Typical Applications: Suitable for repeat contact with all food types, excluding fatty foods, at full temperature.

The flexible PVC is manufactured from FDA approved ingredients and has been independently tested to European Food regulation 10/2011.

LPC-GFG

Construction: Smooth bore, smooth cover, helically formed PVC, flexible conduit with spiral uPVC reinforcement and flexible PVC jacket.

Colour: Grey.

Typical Applications: Suitable for repeat contact with all food types, excluding fatty foods, at full temperature.

The flexible PVC is manufactured from FDA approved ingredients and has been independently tested to European Food regulation 10/2011.

Fittings

FCC-SS

**stainless steel (316L)
P clips**

P clip to support conduit.



nominal size (mm)	LPC-WFG					LPC-BUFG					LPC-GFG					part number
	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	
12	LPCWFG16	30	17.8	12.6	50	LPCBUFG16	30	17.8	12.6	50	LPCGFG16	30	17.8	12.6	50	FCC16-SS
16	LPCWFG20	10, 30	21.1	16.0	70	LPCBUFG20	10, 30	21.1	16.0	70	LPCGFG20	10, 30	21.1	16.0	70	FCC16-SS
20	LPCWFG25	10, 30	26.4	21.0	90	LPCBUFG25	10, 30	26.4	21.0	90	LPCGFG25	10, 30	26.4	21.0	90	FCC20-SS
25	LPCWFG32	10, 30	33.1	26.5	140	LPCBUFG32	10, 30	33.1	26.5	140	LPCGFG32	10, 30	33.1	26.5	140	FCC25-SS
32	LPCWFG40	10, 30	41.8	35.4	190	LPCBUFG40	10, 30	41.8	35.4	190	LPCGFG40	10, 30	41.8	35.4	190	FCC32-SS
40	LPCWFG50	10, 30	47.9	40.0	240	LPCBUFG50	10, 30	47.9	40.0	240	LPCGFG50	10, 30	47.9	40.0	240	FCC40-SS
50	LPCWFG63	10, 30	59.7	51.3	270	LPCBUFG63	10, 30	59.7	51.3	270	LPCGFG63	10, 30	59.7	51.3	270	FCC50-SS
63																FCC63-SS*

Ordering Notes

* Indicates parts made to order on request and may be subject to MOQ and lead time

- Available on request:
 - additional sizes
 - alternative threads

Accessories



see page 126

properties

- Smooth, wipe clean surface
- Accepts some torsional movement
- IP rating:
IP66, IP67, IP68 (2 bar) + IP69
- Temperature range
-20°C to +90°C
- C-FG fitting designed in accordance with EN1672-2 and EN ISO 14159
- C-FG fitting manufactured from stainless steel grade 316L
- Compatible with Hygienic Round Box - see page 126



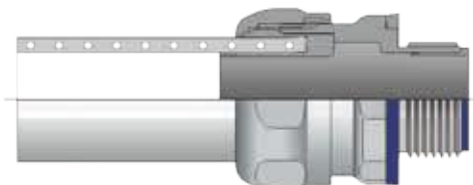
Conduit & Fittings

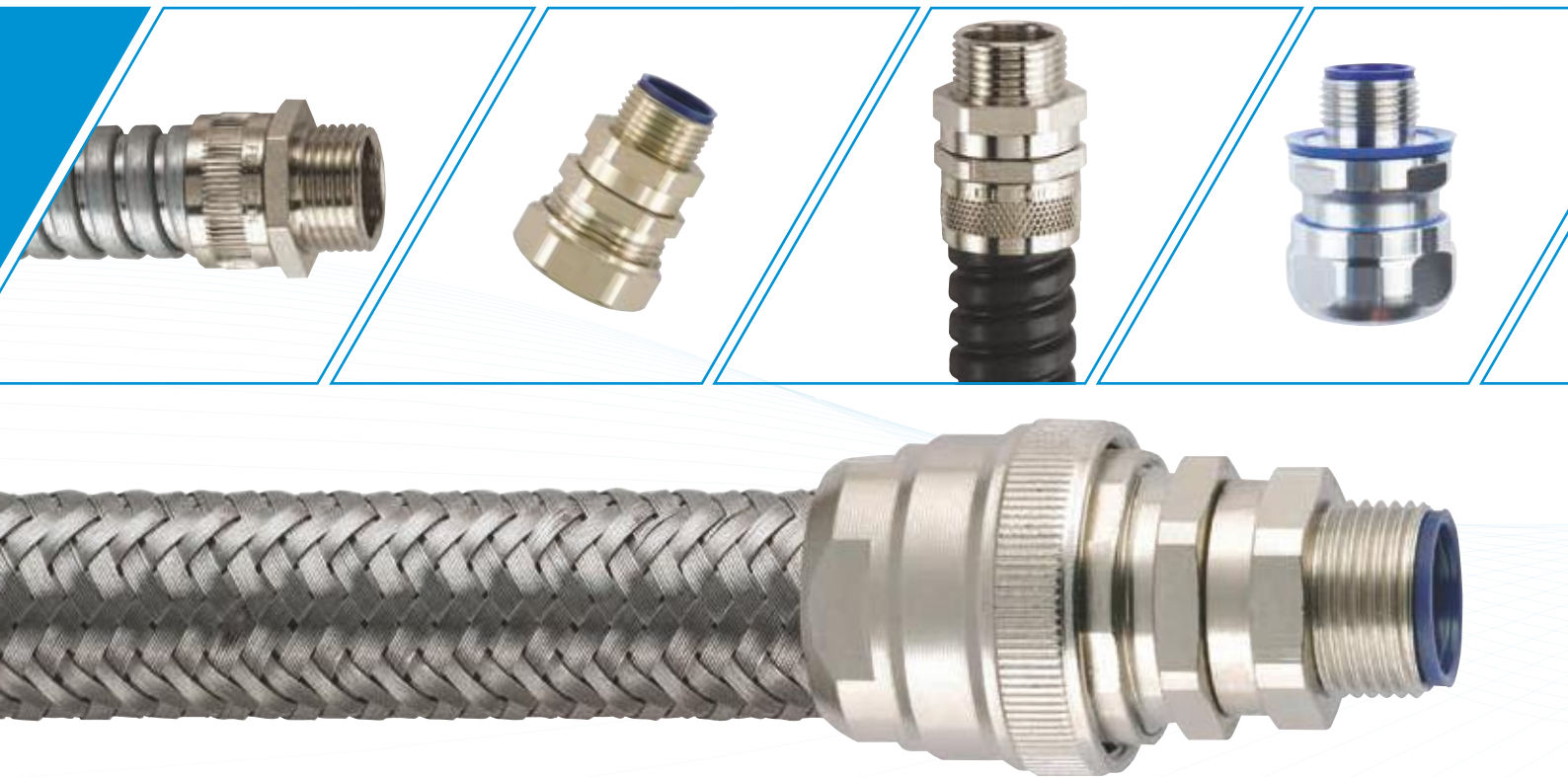
C-FG		LOCKNUTS		I-PACK																																																															
<p>external thread stainless steel food grade</p> <p>Multipart compression fitting designed using principles given in EN1672-2 and EN ISO 14159. Manufactured from 316L stainless steel, complete with polyester elastomer compression seals to prevent ingress of food or bacteria. Can be used for knockout or threaded entries as fitting rotates until tightend.</p> <p>ST fittings are designed for use with Round Boxes on page 126. They have a shorter thread to maximise space within the box or enclosure.</p>		<p>stainless steel (316L) locknuts</p> <p>Hexagonal locknut to secure fitting.</p>		<p>This new range of LPC-FG conduits offers a smooth, easy to clean surface making it ideal for food & beverage, machinery & OEMS, Healthcare and Pharmaceutical applications. Featuring a smooth inner bore, the LPC-FG makes it easy to run cables through the conduit, simplifying installation. The I-Pack consists of 3 metres of conduit, 2 Hygienic fittings and 2 Stainless Steel Locknuts.</p> <ul style="list-style-type: none"> • Hygienic design • Smooth finish • High IP rating • Simplistic ordering - one part number • Easy Storage - short length coiled for space saving • Ready to use - all components to create a system 																																																															
<p>IP66 IP67 IP68 IP69</p>				<p>20mm I-PACK</p> <p>IP66 IP67 IP68 (2 bar) IP69</p>																																																															
				<p>I-PACKBUFG20 3m x LPCBUFG20 Conduit 2x LPC-C-FG Fittings 2x SS-M20 Locknuts</p> <p>I-PACKWFG20 3m x LPCWFG20 Conduit 2x LPC-C-FG Fittings 2x SS-M20 Locknuts</p>																																																															
<p>Ext Metric</p>		<p>st fitting part number</p>		<p>metric thread part number</p>																																																															
<p>25mm I-PACK</p> <p>IP66 IP67 IP68 (2 bar) IP69</p>				<p>I-PACKBUFG25 3m x LPCBUFG25 Conduit 2x LPC-C-FG Fittings 2x SS-M25 Locknuts</p> <p>I-PACKWFG25 3m x LPCWFG25 Conduit 2x LPC-C-FG Fittings 2x SS-M25 Locknuts</p>																																																															
				<p>Blue Version</p> <p>White Version</p>																																																															
<p>part number</p>		<p>part number</p>		<p>nominal size (mm)</p>																																																															
<table border="1"> <tr><td>LPC16-M16-C-FG</td><td></td><td>SS-M16</td><td></td><td></td><td>12</td></tr> <tr><td>LPC20-M20-C-FG</td><td>LPC20-M20ST-C-FG</td><td>SS-M20</td><td></td><td>I-PACKBUFG20</td><td>I-PACKWFG20</td><td>16</td></tr> <tr><td>LPC25-M25-C-FG</td><td></td><td>SS-M25</td><td></td><td>I-PACKBUFG25</td><td>I-PACKWFG25</td><td>16</td></tr> <tr><td>LPC32-M32-C-FG</td><td></td><td>SS-M32</td><td></td><td></td><td></td><td>20</td></tr> <tr><td>LPC40-M40-C-FG</td><td></td><td>SS-M40</td><td></td><td></td><td></td><td>25</td></tr> <tr><td>LPC50-M50-C-FG</td><td></td><td>SS-M50</td><td></td><td></td><td></td><td>32</td></tr> <tr><td>LPC63-M63-C-FG*</td><td></td><td>SS-M63*</td><td></td><td></td><td></td><td>40</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>50</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>63</td></tr> </table>		LPC16-M16-C-FG		SS-M16			12	LPC20-M20-C-FG	LPC20-M20ST-C-FG	SS-M20		I-PACKBUFG20	I-PACKWFG20	16	LPC25-M25-C-FG		SS-M25		I-PACKBUFG25	I-PACKWFG25	16	LPC32-M32-C-FG		SS-M32				20	LPC40-M40-C-FG		SS-M40				25	LPC50-M50-C-FG		SS-M50				32	LPC63-M63-C-FG*		SS-M63*				40							50							63				
LPC16-M16-C-FG		SS-M16			12																																																														
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Standards



Technical Drawing





We work with a range of material types including Galvanised Steel and Stainless Steel, and have developed composite solutions to enhance performance properties to suit technically demanding applications. Our Metallic Offer features over 34 systems, in a range of sizes from 10mm to 75mm.

Flexicon manufacture a range of helically wound conduits, with and without coatings, liquid tight conduits, pliable galvanised steel corrugated conduits and annularly corrugated conduits. Metallic systems can also be combined with overbraids to create composite solutions when required.

Key Features

- High Compression Strength
- High Pull Off Strength
- Wide Temperature Tolerances
- High Impact Strength
- EMC Screening Performance
- High IP Rating – up to IP69
- Inherent Fire Performance Properties
- High Abrasion Resistance

Key Benefits

- Suitable for heavy duty applications
- Maintains integrity of the system in extreme applications
- Suitable for a diverse range of operating environments
- Can withstand impact forces such as falling objects
- Protection against electromagnetic interference
- No risk of water or dust ingress

