



non- metallic conduit & fittings



BS EN IEC 61386



non-metallic conduit application guide

Page number	conduit system	IP rating available	compression strength kg/100mm 21/20mm nominal size	pull-off strength kg 21/20mm nominal size	Colours
50	FPAS nylon LFH PA6 corrugated, std weight	IP66, IP67, IP68, IP69K	75	40	Black Grey
50	FPAL nylon PA6 corrugated, light weight	IP66, IP67, IP68, IP69K	60	30	Black Grey
51	FPAH nylon LFH PA6 corrugated, heavy weight	IP66, IP67, IP68, IP69K	120	70	Black
51	FPR nylon extra LFH PA6 corrugated, std weight	IP66, IP67, IP68, IP69K	75	40	Black
51	FPI nylon PA12 corrugated, standard weight	IP66, IP67, IP68, IP69K	45	30	Black
51	FPIH nylon PA12 corrugated, heavy weight	IP66, IP67, IP68, IP69K	60	50	Black
52	FPY nylon PA6 corrugated, light weight	IP40, IP66, IP67, IP68	60	25	Black Grey
52	FPADS nylon PA6 double slit corrugated	IP40	60	15	Black
52&69	FPP polypropylene corrugated, std weight	IP40, IP66, IP67, IP68	35	25	Black, Grey White
52	FPP-NFR polypropylene corrugated non flame retarded	IP40, IP66, IP67, IP68	35	25	Black, Grey
52	FPPH polypropylene corrugated heavy weight	IP40, IP66, IP67, IP68	100	40	Black, Grey
72	FPCB pvc spiral reinforced black	IP65	60	25	Black
72	FPCG pvc spiral reinforced grey	IP65	60	25	Light Grey
72	FPCGN pvc spiral reinforced green oil resistant	IP65	60	25	Green
72	FPCBU pvc spiral reinforced blue high temperature	IP65	60	25	Blue
74	LPC smooth, pvc spiral reinforced	IP67, IP68, IP69K	120	70	Black Light Grey
74	LPCO smooth pvc spiral orange ultra flexible	IP67, IP68, IP69K	120	45	Orange
74	LPCGN smooth pvc spiral green oil resistant	IP67, IP68, IP69K	120	60	Green
74	LPCBU smooth pvc spiral blue high temperature	IP67, IP68, IP69K	120	60	Blue
76&69	FPL upvc corrugated	IP40, IP66, IP67	150	30	Black, Grey White
77	FPY nylon PA6, large diameter, std weight	IP40, IP65	N/A	N/A	Black Grey

For Nylon / FPP ranges: Grey RAL 7031

For FPC and LPC ranges:

Light Grey RAL 7001, Blue RAL 5012

Green RAL 6001, Orange RAL 2008



78

accessories



82

contractor packs



86

chemical resistance

non-metallic conduit and fittings

high fatigue life	temperature range	flexible	pliable	low fire hazard	halogen free	self extinguishing	high abrasion resistance	high UV resistance	
●	-40 °C to +120 °C	●		●	●	●	●	●	FPAS nylon LFH PA6 corrugated, std weight
●	-40 °C to +120 °C	●			●	●			FPAL nylon PA6 corrugated, light weight
	-40 °C to +120 °C	●		●	●	●	●	●	FPAH nylon LFH PA6 corrugated, heavy weight
	-40 °C to +120 °C	●		●	●	●	●	●	FPR nylon extra LFH PA6 corrugated, std weight
●	-50 °C to +110 °C	●		●	●	●		●	FPI nylon PA12 corrugated, standard weight
●	-50 °C to +110 °C	●		●	●	●		●	FPIH nylon PA12 corrugated, heavy weight
●	-40 °C to +100 °C	●			●	●			FPY nylon PA6 corrugated, light weight
	-40 °C to +110 °C		●		●	●	●		FPADS nylon PA6 double slit corrugated
	-20 °C to +90 °C	●				●			FPP polypropylene corrugated, std weight
	-20 °C to +90 °C	●			●				FPP-NFR polypropylene corrugated non flame retarded
	-20 °C to +90 °C	●				●			FPPH polypropylene corrugated heavy weight
	-5 °C to +70 °C	●				●		●	FPCB pvc spiral reinforced black
	-20 °C to +70 °C	●				●			FPCG pvc spiral reinforced grey
	-20 °C to +70 °C	●				●			FPCGN pvc spiral reinforced green oil resistant
	-20 °C to +90 °C	●				●			FPCBU pvc spiral reinforced blue high temperature
	-5 °C to +70 °C	●				●		●	LPC smooth, pvc spiral reinforced
	-5 °C to +70 °C	●				●			LPCO smooth pvc spiral orange ultra flexible
	-5 °C to +70 °C	●				●			LPCGN smooth pvc spiral green oil resistant
	-20 °C to +90 °C	●				●			LPCBU smooth pvc spiral blue high temperature
	-5 °C to +70 °C		●			●		●	FPL upvc corrugated
	-40 °C to +120 °C	●			●	●		●	FPY nylon PA6, large diameter, std weight



90 thread data



91 technical guidance



94 low fire hazard

non-metallic selection guide



BS EN IEC 61386



- UK manufactured products to the highest standards
- Highest IP performance as standard
- Highest tensile strength performance fittings - FPA and FPAX due to all round teeth design
- Simple construction for ease of installation - Fixed and Swivel versions
- Multiple thread variations available - Metric, PG, NPT, UNEF, external threads, internal threads, integral strain relief versions
- Tested and approved to the latest National and International Standards
- Vibration tested for secure installations
- Widest choice whatever your application

IP66

Flexilok™ fittings



See Pg 68

IP40 IP67

Compression fittings



See Pg 72, 73, 74 & 75

IP40 IP65

Jumbo

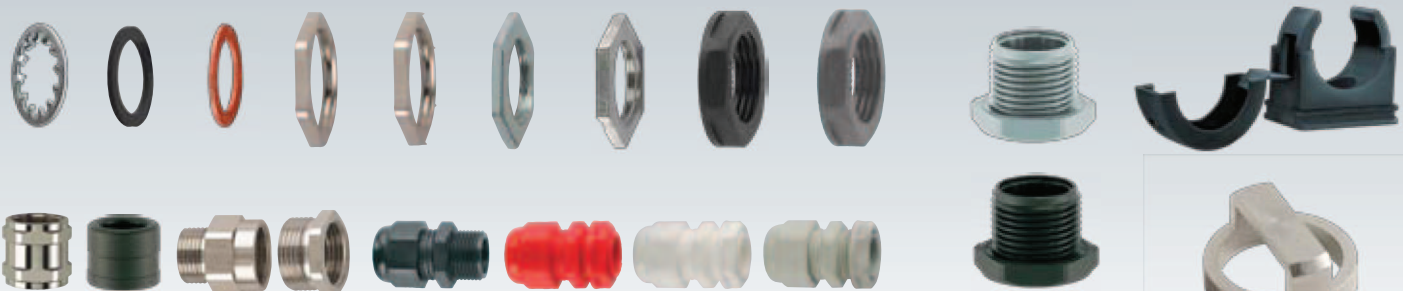


See Pg 77

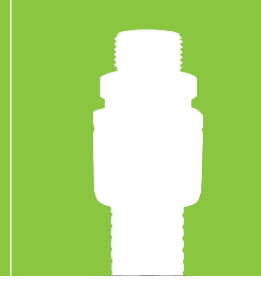
Accessories

Stopping Plugs

Clips



See Pg 78 & 79



FPA

IP66

Straight Fittings - 10mm to 67mm



See Pg 54 & 57

IP66

90 deg elbow - 10mm to 67mm



See Pg 54, 55, 57 & 58

IP66

45 deg elbow - 16mm to 54mm



See Pg 55, 56 & 58

IP66

Coupler Coupler - Flexible to Rigid conduit T-pieces Reducing Divider Reducer



See Pg 56

See Pg 66

IP66

Fittings with integral strain relief



See Pg 42 & 59

FPAX

IP66

IP67

IP68

IP69K

Straight Fittings - 10mm to 67mm



See Pg 60 & 63

IP66 IP67 IP68 IP69K

90 deg elbow - 10mm to 67mm



See Pg 61, 63 & 64

IP66 IP67 IP68 IP69K

45 deg elbow - 16mm to 54mm



See Pg 62 & 64

IP66 IP67 IP68 IP69K

T-pieces Reducer Reducing Divider



See Pg 67

IP66 IP67 IP68 IP69K

Fittings with integral strain relief



See Pg 65

non-metallic conduit and fittings

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.

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

FPAS



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.

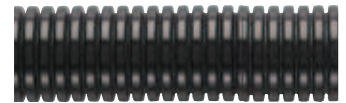
- Highly flexible and high fatigue life
- High impact strength and recovers if crushed
- Temperature range -40°C to +120°C (-20°C to +100°C for moving applications)
- Lloyd's Register Type Approval
- UL listed / UL recognised
- Low Fire Hazard (LFH), see page 94
- UL 94 V2 flame retardancy
- Halogen, sulphur and phosphorus free
- UV resistant (black)
- Abrasion resistant
- Highly resistant to solvents and oils

FPAL

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.

- 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



european (NW) sizes nominal size (mm) pitch	FPAS					FPAL				
	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	50	13.0	9.8	25	FPAL13	50	13.0	10.0	25
12 16 F	FPAS16	25, 50	15.8	11.8	35	FPAL16	50	15.8	12.0	35
14 18 F	FPAS18	50	18.5	14.2	40	FPAL18	50	18.5	14.2	35
20 C	FPAS20	50	20.0	14.8	45	FPAL20	50	20.0	15.0	40
17 21 F	FPAS21	25, 50	21.2	16.7	45	FPAL21	50	21.2	16.9	40
21 C										
25 C	FPAS25	50	25.0	19.1	50	FPAL25	50	25.0	19.3	45
22 25.4 F										
23 28 F	FPAS28	25, 50	28.5	22.8	50	FPAL28	50	28.5	23.0	45
28 C	FPAS28C*	50	28.5	21.6	50					
29 34 C	FPAS34	25, 50	34.5	28.1	60	FPAL34	25, 50	34.5	28.3	55
29 34 F	FPAS34F	25, 50	34.5	28.8	60					
36 42 C	FPAS42	10, 25	42.5	35.5	70	FPAL42	25	42.5	35.7	65
48 54 C	FPAS54	10, 25	54.5	47.2	80	FPAL54	25	54.5	47.4	80
56 67 C	FPAS67	10	67.2	56.3	130	FPAL67	10	67.2	56.5	110

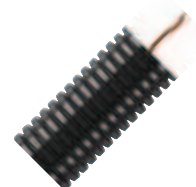
F = fine pitch C = coarse pitch

NOTE: Other reel lengths are available upon request

ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) and reel length eg: FPAS21B-50M for a Black 50m reel
- See cutting tool page 81
- * 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



FPAH STANDARD LOW FIRE HAZARD *

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.

- High mechanical strength
- High impact resistance
- Temperature range -40°C to +120°C
- UL recognised
- Low Fire Hazard (LFH), see page 94
- UL 94 V2 flame retardancy
- Halogen, sulphur and phosphorus free
- UV resistant
- Abrasion resistant
- Highly resistant to solvents and oils

FPR EXTRA LOW FIRE HAZARD **

Construction: Standard weight nylon (highly flame retardant PA6) corrugated flexible conduit. Colour black.

Typical Applications: Railways, underground and public buildings.

- 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 1-085
- UL 94 V0 flame retardancy
- Halogen, sulphur and phosphorus free
- UV resistant
- Abrasion resistant
- Highly resistant to solvents and oils

FPI STANDARD LOW FIRE HAZARD *

Construction: Standard weight nylon (PA12) corrugated flexible conduit. Colour black.

Typical Applications: Robots and continual flexing.

- 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
- Low fire hazard
- Halogen, sulphur and phosphorus free

FPIH STANDARD LOW FIRE HAZARD *

Construction: Heavy weight nylon (PA12) corrugated flexible conduit. Colour black.

Typical Applications: Robots and continual flexing where higher mechanical strength required.

- 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
- Low fire hazard
- Halogen, sulphur and phosphorus free



european (NW) sizes nominal size (mm) pitch	FPAH					FPR					FPI					FPIH				
	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						FPR10	50	10.0	6.3	15										
8 11 F																				
10 13 F	FPAH13	50	13.0	9.0	35	FPR13	50	13.0	9.8	25	FPI13	50	13.0	9.8	25	FPIH13	50	13.0	9.0	25
12 16 F	FPAH16	50	15.8	11.5	45	FPR16	50	15.8	11.8	35	FPI16	50	15.8	11.8	30	FPIH16	50	15.8	11.5	35
14 18 F																				
20 C						FPR20	50	20.0	14.8	45										
17 21 F						FPR21	50	21.2	16.7	45	FPI21	50	21.2	16.7	35					
21 C	FPAH21	50	21.2	15.5	55										FPIH21	50	21.2	15.0	45	
25 C						FPR25	50	25.0	19.1	50										
22 25.4 F																				
23 28 F																				
28 C	FPAH28	50	28.5	21.3	60	FPR28	50	28.5	21.7	50	FPI28	50	28.5	21.7	45	FPIH28	50	28.5	21.3	50
29 34 C	FPAH34	25	34.5	26.9	70	FPR34	50	34.5	28.1	60	FPI34	25	34.5	28.1	55	FPIH34	25	34.5	26.9	60
29 34 F																				
36 42 C	FPAH42	25	42.5	34.6	80	FPR42	25	42.5	35.5	70	FPI42	25	42.5	35.5	60	FPIH42	25	42.5	34.6	70
48 54 C	FPAH54	25	54.5	46.0	90	FPR54	25	54.5	47.2	80	FPI54	25	54.5	47.2	70	FPIH54	25	54.5	46.0	80
56 67 C											FPI67	10	67.2	56.3	120					

F = fine pitch C = coarse pitch

STANDARDS

* refer to conduit properties for applicable standards



IMPORTANT NOTE

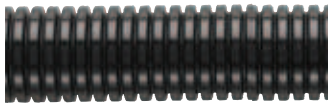
- For LFH performance see page 94

FPY

Construction: Light weight nylon (PA6) corrugated flexible conduit. Colour black or grey (RAL 7031) on request.

Typical Applications: Machines and commercial vehicles.

- Highly flexible and high fatigue life
- High impact strength and recovers if crushed
- Temperature range -40°C to +100°C
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free
- FPY6 also available, 7.3mm OD x 5mm ID
- Slit version, FPYS, also available. Cable can be inserted laterally using tool shown on page 81.



FPADS

NEW

Construction: Double slit nylon (PA6) corrugated conduit. Colour black.

Typical Applications: Retrofit.

- 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



FPP

Construction: Standard weight polypropylene, flexible conduit. Colour black, grey (RAL 7031) or white.

Typical Applications: Buildings, particularly where buried in concrete or plaster.

- Acid resistant
- Temperature range -20°C to +90°C
- Self extinguishing
- Slit version available on request*

Other options available:

FPP-NFR

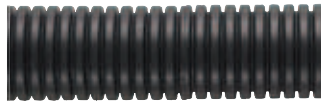
NEW

LSOH conduit for data calling applications

FPPH

NEW

Heavy weight conduit for buried underground applications.



european (NW) sizes
nominal size (mm)
pitch

FPY		FPADS				FPP				Conduit Clip					
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	50	10.0	6.5	15						FPP10	50	10.0	6.3	15	FCL10
8 11 F	50	11.5	8.5	20	FPADS11*	50	11.5	6.2	70	FPP13	50	13.0	9.8	25	FCL13
10 13 F	50	13.0	10.0	25	FPADS13	50	13.0	7.9	75	FPP16	50	15.8	11.8	35	FCL16
12 16 F	50	16.1	12.8	35	FPADS16	50	15.8	10.3	100	FPP20	50	20.0	14.8	40	FCL18
14 18 F										FPP21	50	21.2	16.7	40	FCL20
20 C										FPP25	50	25.0	19.1	50	FCL21
17 21 F	50	21.2	16.9	40	FPADS21	50	21.2	13.9	120	FPP26	50	25.4	21.4	50	FCL25
21 C										FPP28	50	28.5	22.8	55	FCL28
25 C										FPP34	50	34.5	28.1	65	FCL28
22 25.4 F	50	25.4	21.4	45	FPADS28	50	28.5	20.5	170	FPP42	25	42.5	35.5	80	FCL34
23 28 F	50	28.5	23.0	45	FPADS34	25	34.5	26.6	180	FPP54	25	54.5	47.2	100	FCL42
28 C										FPP67	10	67.2	56.3	150	FCL54
29 34 C	25	34.5	28.3	55											
29 34 F															
36 42 C	25	42.5	35.7	65	FPADS42	25	42.5	32.0	200						
48 54 C	25	54.5	47.4	80	FPADS54	25	54.5	43.0	240						
56 67 C															

F = fine pitch C = coarse pitch

NOTE: FPP - NFR and FPPH

Contact us for more details

ORDERING NOTES

- Specify colour (B = Black, G = Grey) and reel length eg: FPY16B-50M for a Black 50m reel
- Available on request:
 - longer lengths and bulk packaging
 - cut lengths and assemblies
 - additional sizes
 - other colours
 - conduit with pre-installed draw wire
 - FPADS in PP



non-metallic conduit and fitting

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, Flexilok, T-pieces, MP, MPS and MSL 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 nine different non metallic conduit families listed in this spread and these are detailed across Pages 50 - 52.

Ordering Notes

Once you have chosen your conduit from our wide range of products listed on Pages 50, 51 and 52, 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)	FPAS		FPAL		FPAH		FPR		FPI		FPIH		FPY		FPADS		FPP	
	part number	part number	part number	part number	part number	part number	part number	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	FPAS10	FPAL10				FPR10							FPY8					
7 F 10																		
8 F 11	FPAS11	FPAL11											FPY10		FPADS11			
10 F 13	FPAS13	FPAL13	FPAH13		FPR13		FPI13	FPIH13					FPY12		FPADS13		FPP13	
10 F 13																		
10 C 13																		
12 F 16	FPAS16	FPAL16	FPAH16		FPR16		FPI16	FPIH16							FPADS16		FPP16	
12 C 16																		
12 C 16																		
12 F 16														FPY16				
14 F 18	FPAS18	FPAL18																
14 C 18																		
C 20	FPAS20				FPR20													FPP20
17 F 21	FPAS21	FPAL21			FPR21	FPI21							FPY20				FPP21	
C 21			FPAH21						FPIH21						FPADS21			
C 21																		
C 25	FPAS25	FPAL25			FPR25													FPP25
22 F 25.4													FPY25				FPP26	
23 F 28	FPAS28	FPAL28			FPR28								FPY28				FPP28	
C 28	FPAS28C		FPAH28			FPI28	FPIH28								FPADS28			
29 C 34	FPAS34	FPAL34	FPAH34		FPR34	FPI34	FPIH34						FPY32		FPADS34		FPP34	
29 F 34	FPAS34F																	
36 C 42	FPAS42	FPAL42	FPAH42		FPR42	FPI42	FPIH42						FPY40		FPADS42		FPP42	
36 C 42																		
48 C 54	FPAS54	FPAL54	FPAH54		FPR54	FPI54	FPIH54						FPY50		FPADS54		FPP54	
48 C 54																		
56 C 67	FPAS67	FPAL67				FPI67												FPP67

ORDERING NOTES



IEC EN 61386

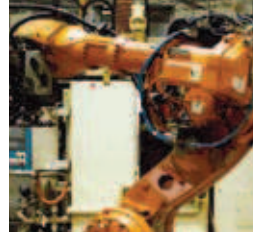


FPA system nylon

Construction: Nylon (PA66) moulded fitting.



IP66



FITTINGS

FPA

IP66

straight external thread

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



FPA

IP66

straight UNEF swivel internal thread

One piece, fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.



FPA

IP66

flange

One piece, fast fit fitting with nylon swivel flange.



FPA90

IP66

90° elbow external thread

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



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	FPA10-M12	FPA10-PG7					FPA10-M12-90	FPA10-PG7-90	
7	10	FPA10-M16	FPA10-PG9							
8	11	FPA11-M12	FPA11-PG7					FPA11-M12-90		
10	13	FPA13-M12	FPA13-PG7					FPA13-M16-90	FPA13-PG9-90	
10	13	FPA13-M16	FPA13-PG9							
10	13	FPA13-M20	FPA13-PG11							
12	16	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-BU100	(1")		FPA16-M20-90	FPA16-PG11-90	
12	16		FPA16-PG13		FPA16-BU119	(1 1/16")			FPA16-PG13-90	
12	16		FPA16-PG16							
14	18	FPA18-M20	FPA18-PG13					FPA18-M20-90	FPA18-PG13-90	
14	18		FPA18-PG16						FPA18-PG16-90	
20	20.0	FPA20-M20						FPA20-M20-90		
17	21	FPA21-M20	FPA21-PG13	FPA21-050	FPA21-BU100	(1")	FPA21-FL	FPA21-M20-90	FPA21-PG13-90	FPA21-050-90
	21		FPA21-PG16		FPA21-BU119	(1 1/16")			FPA21-PG16-90	
	21				FPA21-BU138	(1 3/8")				
25	25.0	FPA25-M25						FPA25-M25-90		
22	25.4									
23	28	FPA28-M25	FPA28-PG21	FPA28-075	FPA28-BU144	(1 7/16")	FPA28-FL	FPA28-M25-90	FPA28-PG21-90	FPA28-075-90
	28	FPA28-M32	FPA28-PG29		FPA28-BU175	(1 3/4")				
29	34	FPA34-M32	FPA34-PG29	FPA34-100	FPA34-BU175	(1 3/4")	FPA34-FL	FPA34-M32-90	FPA34-PG29-90	FPA34-100-90
29	34	FPA34-M40								
36	42	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	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	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
- * Indicates parts made to order on request and may be subject to MOQ and lead time

- **Available on request:**
 - additional sizes, alternative threads
 - additional UNEF threads and combinations
 - all nylon UNEF threads

properties

- 1 part fast fit
- IP rating: IP66
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- All round teeth give high pull off strength 70kg with FPAH21

- Can be removed using a screwdriver
- 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 locknuts

- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring.
- Low Fire Hazard (LFH), see page 90
- Halogen, sulphur and phosphorus free
- Available in black or grey (RAL 7031)

IP66	IP66	IP66	IP66
FPA90	FPA90	FPA45	FPA45
90° 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.	flange One piece, fast fit 90 degree elbow fitting with nylon swivel flange.	45° elbow external thread One piece, fast fit, external threaded 45 degree elbow fitting. Suitable for knockouts.	45° elbow UNEF swivel internal thread One piece, fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.



90 Degree UNEF Thread	90 Degree Flange	45 Degree Metric	45 Degree PG	45 Degree NPT	45 Degree UNEF Thread	nominal size (mm)	OD mm
						10	10.0
						10	
						11	11.5
						13	13.0
						13	
						13	
FPA16-BU075-90	FPA16-FL-90	FPA16-M20-45	FPA16-PG13-45	FPA16-050-45	FPA16-BU100-45	16	15.8
FPA16-BU100-90					FPA16-BU119-45	16	
FPA16-BU119-90						16	
						16	16.1
						18	18.5
						18	
						20	20.0
FPA21-BU100-90	FPA21-FL-90	FPA21-M20-45	FPA21-PG13-45	FPA21-050-45	FPA21-BU100-45	21	21.2
FPA21-BU119-90			FPA21-PG16-45		FPA21-BU119-45	21	
FPA21-BU138-90					FPA21-BU138-45	21	
						25	25.0
						25.4	25.4
FPA28-BU144-90	FPA28-FL-90	FPA28-M25-45	FPA28-PG21-45	FPA28-075-45	FPA28-BU144-45	28	28.5
FPA28-BU175-90					FPA28-BU175-45	28	
FPA34-BU175-90	FPA34-FL-90	FPA34-M32-45	FPA34-PG29-45	FPA34-100-45	FPA34-BU175-45	34	34.5
						34	
FPA42-BU200-90	FPA42-FL-90	FPA42-M50-45	FPA42-PG36-45	FPA42-150-45	FPA42-BU200-45	42	42.5
FPA42-BU225-90					FPA42-BU225-45	42	
FPA54-BU200-90	FPA54-FL-90*	FPA54-M50-45		FPA54-150-45	FPA54-BU200-45	54	54.5
FPA54-BU225-90					FPA54-BU225-45	54	
						67	67.0

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.



FITTINGS

IP66

FPA45

flange

One piece, fast fit 45 degree elbow fitting with nylon swivel flange.



45 Degree Flange

IP66

FPA-FPA

coupler

One piece, fast fit, coupler to join corrugated conduits. Also available in FPAX version.



Coupler

IP66

FPA-MPC

coupler

One piece, fast fit, coupler to join corrugated conduit to rigid conduit.



Rigid Conduit Coupler

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	FPA16-FL-45	FPA16-FPA16	FPA16-MPC16
12	16				
12	16				
12	16	16.1			
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	
22	25.4	25.4			
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-MPC40
36	42				
48	54	54.5	FPA54-FL-45	FPA54-FPA54	
48	54				
56	67	67.0			

ORDERING NOTES

* Indicates parts made to order on request

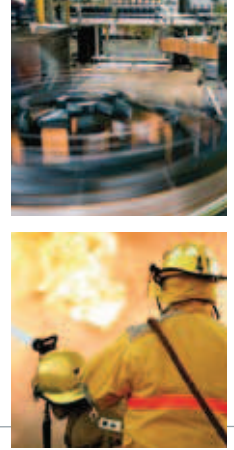
- NPB = Nickel Plated Brass

• **Available on request:**

- colour grey, other threads
- for brass locknuts and sealing washers see accessories, page 78
- EMC braid clamp version see page 42

properties

- 1 part fast fit
- IP rating: IP66
- 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
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free
- Available in black or grey (RAL 7031)



IP66

FPA

straight swivel brass external thread

One piece, fast fit, swivel, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.



NPB Ext Metric

NPB Ext PG

IP66

FPA

straight swivel brass internal thread

One piece, fast fit, swivel, nickel plated brass internal threaded fitting.



NPB Int Metric

NPB Int PG

IP66

FPA90

90° elbow swivel brass external thread

One piece, fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.



NPB Ext Metric

NPB Ext PG

						nominal size (mm)	OD mm	European (NW) sizes
						10	10.0	7
						10		7
						11	11.5	8
FPA13-BM16	FPA13-BPG9	FPA13-BFM16	FPA13-BFPG9	FPA13-BM16-90	FPA13-BPG9-90	13	13.0	10
						13		10
						13		10
FPA16-BM16	FPA16-BPG9	FPA16-BFM16	FPA16-BFPG11	FPA16-BM16-90	FPA16-BPG9-90	16	15.8	12
FPA16-BM20	FPA16-BPG11	FPA16-BFM20	FPA16-BFPG16	FPA16-BM20-90	FPA16-BPG11-90	16		12
						16		12
						16	16.1	12
						18	18.5	14
						18		14
						20	20.0	
FPA21-BM20	FPA21-BPG13	FPA21-BFM20	FPA21-BFPG16	FPA21-BM20-90	FPA21-BPG13-90	21	21.2	17
	FPA21-BPG16				FPA21-BPG16-90	21		17
						21		17
						25	25.0	
						25.4	25.4	22
FPA28-BM25	FPA28-BPG21	FPA28-BFM25	FPA28-BFPG21	FPA28-BM25-90	FPA28-BPG21-90	28	28.5	23
						28		23
FPA34-BM32	FPA34-BPG29	FPA34-BFM32	FPA34-BFPG29	FPA34-BM32-90	FPA34-BPG29-90	34	34.5	29
						34		29
FPA42-BM40		FPA42-BFM40		FPA42-BM50-90		42	42.5	36
FPA42-BM50						42		36
FPA54-BM50		FPA54-BFM50		FPA54-BM50-90		54	54.5	48
FPA54-BM63						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

90° elbow swivel brass internal thread

One piece, fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting.



FPA45

45° elbow swivel brass external thread

One piece, fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.



FPA45

45° elbow swivel brass internal thread

One piece, fast fit, swivel, 45 degree elbow, nickel plated brass internal threaded fitting.



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

NPB Int Metric

NPB Int PG

NPB Ext Metric

NPB Ext PG

NPB Int Metric

NPB Int PG

7	10	10.0							
7	10								
8	11	11.5							
10	13	13.0	FPA13-BFM16-90	FPA13-BFPG9-90					
10	13								
10	13								
12	16	15.8	FPA16-BFM16-90	FPA16-BFPG11-90	FPA16-BM16-45	FPA16-BPG13-45	FPA16-BFM20-45	FPA16-BFPG16-45	
12	16		FPA16-BFM20-90	FPA16-BFPG16-90	FPA16-BM20-45	FPA16-BPG16-45			
12	16								
12	16	16.1							
14	18	18.5							
14	18								
20	20.0								
17	21	21.2	FPA21-BFM20-90	FPA21-BFPG16-90	FPA21-BM20-45	FPA21-BPG13-45	FPA21-BFM20-45	FPA21-BFPG16-45	
17	21					FPA21-BPG16-45			
17	21								
25	25.0								
22	25.4	25.4							
23	28	28.5	FPA28-BFM25-90	FPA28-BFPG21-90	FPA28-BM25-45	FPA28-BPG21-45	FPA28-BFM25-45	FPA28-BFPG21-45	
23	28								
29	34	34.5	FPA34-BFM32-90	FPA34-BFPG29-90	FPA34-BM32-45	FPA34-BPG29-45	FPA34-BFM32-45	FPA34-BFPG29-45	
29	34								
36	42	42.5	FPA42-BFM50-90		FPA42-BM50-45		FPA42-BFM50-45		
36	42								
48	54	54.5	FPA54-BFM50-90		FPA54-BM50-45		FPA54-BFM50-45		
48	54								
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 78
- EMC braid clamp version, see page 42

properties

- 1 part fast fit
- IP rating: **of conduit & fitting: IP66**
of cable gland: IP68 (10 bar) + IP69K
- 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: **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 94
- Halogen, sulphur and phosphorus free
- Refer to accessories for clamping range page 79



IP66

FPA

NEW

cable gland

One piece, fast fit, swivel, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.



NPB Metric

NPB PG

IP66

FPA90

NEW

cable gland

One piece, fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.



NPB Metric

IP66

FPA45

NEW

cable gland

One piece, fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.



NPB Metric

nominal size (mm)

OD mm

European (NW) sizes

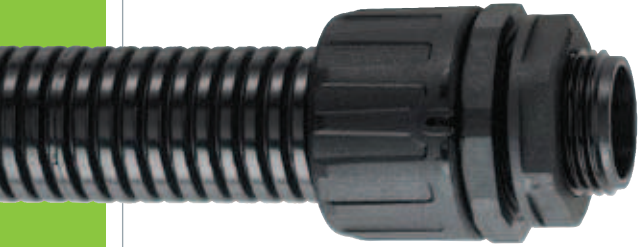
				10	10.0	7
				10		7
				11	11.5	8
				13	13.0	10
				13		10
				13		10
				16	15.8	12
				16		12
				16		12
				16	16.1	12
				18	18.5	14
				18		14
				20	20.0	
				21	21.2	17
				21		17
				21		17
				25	25.0	
				25.4	25.4	22
				28	28.5	23
				28		23
				34	34.5	29
				34		29
				42	42.5	36
				42		36
				54	54.5	48
				54		48
				67	67.0	56

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

straight external thread

Fast fit, external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



Ext Metric

Ext PG

Ext NPT



FPAX

straight UNEF swivel internal thread

Fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.



Int UNEF

Thread



FPAX

flange

Fast fit fitting with nylon swivel flange with additional conduit seal.



Flange

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

European (NW) sizes	Nominal size (mm)	OD mm	Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread	Flange
7 10	10.0							
7 10								
8 11	11.5							
10 13	13.0		FPAX13-M16	FPAX13-PG9				
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-BU100	1"	
12 16				FPAX16-PG13		FPAX16-BU119	1 1/16"	
12 16	16.1			FPAX16-PG16				
14 18	18.5							
14 18								
20	20.0							
17 21	21.2		FPAX21-M20	FPAX21-PG13	FPAX21-050	FPAX21-BU100	1"	FPAX21-FL
17 21				FPAX21-PG16		FPAX21-BU119	1 1/16"	
17 21						FPAX21-BU138	1 3/8"	
25	25.0							
22 25.4	25.4							
23 28	28.5		FPAX28-M25	FPAX28-PG21	FPAX28-075	FPAX28-BU144	1 7/16"	FPAX28-FL
23 28			FPAX28-M32	FPAX28-PG29		FPAX28-BU175	1 3/4"	
29 34	34.5		FPAX34-M32	FPAX34-PG29	FPAX34-100	FPAX34-BU175	1 3/4"	FPAX34-FL
29 34			FPAX34-M40					
36 42	42.5		FPAX42-M40	FPAX42-PG36	FPAX42-125	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-BU200	2"	
48 54			FPAX54-M63	FPAX54-PG48	FPAX54-200	FPAX54-BU225	2 1/4"	
56 67	67.0							

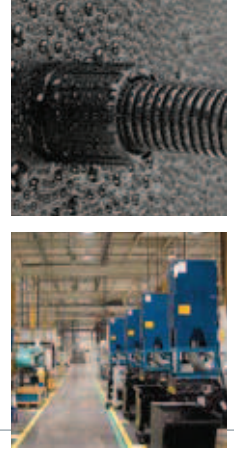
ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) eg: FPAX16-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
 - all nylon UNEF threads

properties

- Fast fit
- Supplied with additional conduit seal and face seal
- Face seal details:
Nylon thread - neoprene washer
UNEF and Flange - O-ring
Brass external thread - Fibre washer
- IP rating:
IP66 + IP67 + IP68 (2 bar) + IP69K

- 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 locknuts
- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free



IP66 IP67 IP68 IP69K

FPAX90

90° elbow external thread

Fast fit, external threaded 90 degree elbow fitting with additional conduit seal. Suitable for knockouts.



Ext Metric

Ext PG

Ext NPT

IP66 IP67 IP68 IP69K

FPAX90

90° elbow UNEF swivel internal thread

Fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.



Int UNEF

Thread

IP66 IP67 IP68 IP69K

FPAX90

flange

Fast fit 90 degree elbow fitting with nylon swivel flange with additional conduit seal.



Flange

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

FPAX13		FPAX16		FPAX21		FPAX28		FPAX34		FPAX42		FPAX54		nominal size (mm)	OD mm	european (NW) sizes
FPAX13-M16-90	FPAX13-PG9-90													10	10.0	7
														10		7
														11	11.5	8
														13	13.0	10
														13		10
														13		10
FPAX16-M16-90	FPAX16-PG9-90	FPAX16-050-90	FPAX16-BU075-90	(3/4")	FPAX16-FL-90									16	15.8	12
FPAX16-M20-90	FPAX16-PG11-90		FPAX16-BU100-90	(1")										16		12
	FPAX16-PG13-90		FPAX16-BU119-90	(1 1/8")										16		12
														16	16.1	12
														18	18.5	14
														18		14
														20	20.0	
FPAX21-M20-90	FPAX21-PG13-90	FPAX21-050-90	FPAX21-BU100-90	(1")	FPAX21-FL-90									21	21.2	17
	FPAX21-PG16-90		FPAX21-BU119-90	(1 1/8")										21		17
			FPAX21-BU138-90	(1 3/8")										21		17
														25	25.0	
														25.4	25.4	22
FPAX28-M25-90	FPAX28-PG21-90	FPAX28-075-90	FPAX28-BU144-90	(1 1/16")	FPAX28-FL-90									28	28.5	23
			FPAX28-BU175-90	(1 3/4")										28		23
FPAX34-M32-90	FPAX34-PG29-90	FPAX34-100-90	FPAX34-BU175-90	(1 3/4")	FPAX34-FL-90									34	34.5	29
														34		29
FPAX42-M40-90	FPAX42-PG36-90	FPAX42-125-90	FPAX42-BU200-90	(2")	FPAX42-FL-90									42	42.5	36
FPAX42-M50-90		FPAX42-150-90	FPAX42-BU225-90	(2 1/4")										42		36
FPAX54-M50-90	FPAX54-PG48-90	FPAX54-150-90	FPAX54-BU200-90	(2")										54	54.5	48
FPAX54-M63-90		FPAX54-200-90	FPAX54-BU225-90	(2 1/4")										54		48
														67	67.0	56

STANDARDS



BS EN IEC 61386





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, grey on request*.

FITTINGS

IP66 IP67 IP68 IP69K

FPAX45

45° elbow external thread

Fast fit, external threaded 45 degree elbow fitting with additional conduit seal. Suitable for knockouts.



IP66 IP67 IP68 IP69K

FPAX45

45° elbow UNEF swivel internal thread

Fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.



IP66 IP67 IP68 IP69K

FPAX45

flange

Fast fit 45 degree elbow fitting with nylon swivel flange with additional conduit seal.



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

European (NW) sizes	nominal size (mm)	OD mm	Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread	Flange
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-BU100-45 FPAX16-BU119-45	(1") (1 3/16")	FPAX16-FL-45
12	16							
12	16							
12	16	16.1						
14	18	18.5						
14	18							
20	20.0							
17	21	21.2	FPAX21-M20-45	FPAX21-PG13-45 FPAX21-PG16-45	FPAX21-050-45	FPAX21-BU100-45 FPAX21-BU119-45 FPAX21-BU138-45	(1") (1 3/16") (1 3/8")	FPAX21-FL-45
17	21							
17	21							
25	25.0							
22	25.4	25.4						
23	28	28.5	FPAX28-M25-45	FPAX28-PG21-45	FPAX28-075-45	FPAX28-BU144-45 FPAX28-BU175-45	(1 7/16") (1 3/4")	FPAX28-FL-45
23	28							
29	34	34.5	FPAX34-M32-45	FPAX34-PG29-45	FPAX34-100-45	FPAX34-BU175-45	(1 3/4")	FPAX34-FL-45
29	34							
36	42	42.5	FPAX42-M50-45	FPAX42-PG36-45	FPAX42-150-45	FPAX42-BU200-45 FPAX42-BU225-45	(2") (2 1/4")	FPAX42-FL-45
36	42							
48	54	54.5	FPAX54-M50-45		FPAX54-150-45	FPAX54-BU200-45 FPAX54-BU225-45	(2") (2 1/4")	
48	54							
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:
 - colour grey, other threads
 - for brass locknuts and sealing washers see accessories, page 78
 - EMC braid clamp version

properties

- Fast fit
- Supplied with additional conduit seal and face seal
- Face seal details:
 - Nylon thread - neoprene washer
 - UNEF and Flange - O-ring
 - Brass threads - Fibre washer
- IP rating: IP66 + IP67 + IP68 (2 bar) + IP69K

- 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 locknuts
- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free

IP66 IP67 IP68 IP69K

FPAX

straight swivel brass external thread

Fast fit, swivel, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



NPB Ext Metric

NPB Ext PG

IP66 IP67 IP68 IP69K

FPAX

straight swivel brass internal thread

Fast fit, swivel, nickel plated brass internal threaded fitting with additional conduit seal.



NPB Int Metric

NPB Int PG

IP66 IP67 IP68 IP69K

FPAX90

90° elbow swivel brass external thread

Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



NPB Ext Metric

NPB Ext PG

						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	16.1	12
						18	18.5	14
						18		14
						20	20.0	
						21	21.2	17
						21		17
						21		17
						25	25.0	
						25.4	25.4	22
						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

STANDARDS



BS EN IEC 61386





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, grey on request*.



FITTINGS



FPAX90

90° elbow swivel brass internal thread

Fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting with additional conduit seal.



NPB Int Metric

NPB Int PG



FPAX45

45° elbow swivel brass external thread

Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



NPB Ext Metric

NPB Ext PG



FPAX45

45° elbow swivel brass internal thread

Fast fit, swivel, 45 degree elbow, nickel plated brass internal threaded fitting with additional conduit seal.



NPB Int Metric

NPB Int PG

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

European (NW) sizes	nominal size (mm)	OD mm	FPAX90 NPB Int Metric	FPAX90 NPB Int PG	FPAX45 NPB Ext Metric	FPAX45 NPB Ext PG	FPAX45 NPB Int Metric	FPAX45 NPB Int PG
7	10	10.0						
7	10							
8	11	11.5						
10	13	13.0	FPAX13-BFM16-90	FPAX13-BFPG9-90				
10	13							
10	13							
12	16	15.8	FPAX16-BFM16-90	FPAX16-BFPG11-90	FPAX16-BM16-45	FPAX16-BPG13-45	FPAX16-BFM20-45	FPAX16-BFPG16-45
12	16		FPAX16-BFM20-90	FPAX16-BFPG16-90	FPAX16-BM20-45	FPAX16-BPG16-45		
12	16							
12	16	16.1						
14	18	18.5						
14	18							
20	20.0							
17	21	21.2	FPAX21-BFM20-90	FPAX21-BFPG16-90	FPAX21-BM20-45	FPAX21-BPG13-45	FPAX21-BFM20-45	FPAX21-BFPG16-45
17	21					FPAX21-BPG16-45		
17	21							
25	25.0							
22	25.4	25.4						
23	28	28.5	FPAX28-BFM25-90	FPAX28-BFPG21-90	FPAX28-BM25-45	FPAX28-BPG21-45	FPAX28-BFM25-45	FPAX28-BFPG21-45
23	28							
29	34	34.5	FPAX34-BFM32-90	FPAX34-BFPG29-90	FPAX34-BM32-45	FPAX34-BPG29-45	FPAX34-BFM32-45	FPAX34-BFPG29-45
29	34							
36	42	42.5	FPAX42-BFM50-90		FPAX42-BM50-45		FPAX42-BFM50-45	
36	42							
48	54	54.5	FPAX54-BFM50-90		FPAX54-BM50-45		FPAX54-BFM50-45	
48	54							
56	67	67.0						

ORDERING NOTES

- NPB = Nickel Plated Brass
 - Available on request:
 - colour grey, other threads
 - for brass locknuts and sealing washers see accessories, page 78
 - EMC braid clamp version, see page 42
- * Indicates parts made to order on request

properties

- Fast fit
- Supplied with additional conduit seal & face seal
- Face seal details:
 - Nylon thread - neoprene washer
 - UNEF and Flange - O-ring
 - Brass threads - Fibre washer
- IP rating: for conduit & fitting IP66 + IP67 + IP68 (2 bar) + IP69K
for cable gland: IP68 (10 bar)+IP69K

- 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 94
- Halogen, sulphur and phosphorus free
- Refer to accessories for clamping range page 79

IP66 IP67 IP68 IP69K

FPAX

NEW

cable gland

Fast fit, swivel, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.

IP66 IP67 IP68 IP69K

FPAX90

NEW

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.

IP66 IP67 IP68 IP69K

FPAX45

NEW

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.



NPB Metric

NPB PG



NPB Metric



NPB Metric

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

				10	10.0	7
				10		7
				11	11.5	8
FPAX13-BM16-CG		FPAX13-BM16-CG-90		13	13.0	10
				13		10
				13		10
FPAX16-BM16-CG	FPAX16-BPG11-CG*	FPAX16-BM16-CG-90	FPAX16-BM20-CG-45	16	15.8	12
FPAX16-BM20-CG	FPAX16-BPG16-CG*	FPAX16-BM20-CG-90		16		12
				16		12
				16	16.1	12
				18	18.5	14
				18		14
				20	20.0	
FPAX21-BM20-CG	FPAX21-BPG16-CG*	FPAX21-BM20-CG-90	FPAX21-BM20-CG-45	21	21.2	17
				21		17
				21		17
				25	25.0	
				25.4	25.4	22
FPAX28-BM25-CG	FPAX28-BPG21-CG*	FPAX28-BM25-CG-90	FPAX28-BM25-CG-45	28	28.5	23
				28		23
FPAX34-BM32-CG	FPAX34-BPG29-CG*	FPAX34-BM32-CG-90	FPAX34-BM32-CG-45	34	34.5	29
				34		29
FPAX42-BM40-CG		FPAX42-BM40-CG-90	FPAX42-BM40-CG-45	42	42.5	36
				42		36
FPAX54-BM50-CG*		FPAX54-BM50-CG-90*	FPAX54-BM50-CG-45*	54	54.5	48
				54		48
				67	67.0	56

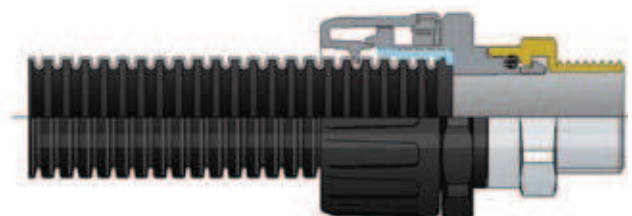
STANDARDS



BS EN IEC 61386



TECHNICAL DRAWING



FPA & FPAX T Pieces and Dividers

NEW

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



IP66

IP67

IP68

IP69K

FITTINGS

FPA

IP66

T piece with inspection lid
Fast fit T piece with inspection lid.



FPA

IP66

NEW

Divider
Fast fit reducing divider



Reducer/ Stop Plug

IP66

Fitting to reduce or blank off any outlets.



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

12	16	13	FPA16T
			FPA20T
17	21	16	FPA21T
23	28	21	FPA28T
29	34	28	FPA34T
36			FPA42T

FPA16-13-13
FPA21-16-16
FPA28-21-21
FPA34-28-28

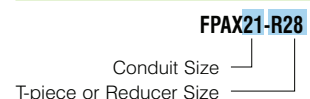
FPA13-R16 SP-R16
FPA16-R21 FPA13-R21 SP-R21
FPA25-R28 FPA21-R28 FPA20-R28 FPA16-R28 FPA13-R28 SP-R28
FPA28-R34 FPA21-R34 FPA16-R34 SP-R34 FPA34-R42 FPA28-R42 FPA21-R42

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)
- 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 94
- 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



IP66 IP67 IP68

FPAX

T piece with inspection lid
Fast fit T piece with inspection lid and additional seals for enhanced IP rating.



IP66 IP67 IP68 IP69K

FPAX

NEW

Divider
Fast fit reducing divider with additional seals for enhanced IP ratings



IP66 IP67 IP68

Reducer/ Stop Plug

Fitting to reduce or blank off outlets with additional seal for enhanced IP rating.



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

12	16	13	FPAX16T
17	21	16	FPAX21T
23	28	21	FPAX28T
29	34	28	FPAX34T
36	42		FPAX42T

FPAX16-13-13
FPAX21-16-16
FPAX28-21-21
FPAX34-28-28

FPAX13-R16
FPAX16-R21 SP-R21
FPAX21-R28 FPAX16-R28 SP-R28
FPAX28-R34 FPAX21-R34 FPAX16-R34
FPAX34-R42 FPAX28-R42 FPAX21-R42

STANDARDS



BS EN IEC 61386





Flexilok® system

Construction: Nylon (PA66) or polypropylene 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)
 - (FLK20-PP - FPP20 13kg)
- Can be removed using a screwdriver
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Metric threads supplied complete with locknuts
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free
- Available in black, grey (RAL 7031) and white, see page 69



IP66

FITTINGS

FLK

straight external thread

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



FLK

Push in

Simple, one piece, push in fitting suitable for knockouts with no need for locknuts.



NEW

FLK90

90° elbow external thread

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



FLK-FLK

coupler

One piece, slim, fast fit coupler for joining 2 conduits together.



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

Ext Metric Ext Metric (PP) Ext PG Ext Metric Ext PG Coupler

7	10	10.0	FLK10-M12*						
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-M16-PP	FLK16-PG11	FLK16-PL20	FLK16-M16-90	FLK16-PG11-90	FLK16-FLK16
12	16		FLK16-M20		FLK16-PG13		FLK16-M20-90		
12	16								
12	16	16.1							
14	18	18.5							
14	18								
	20	20.0	FLK20-M20	FLK20-M20-PP		FLK20-PL20	FLK20-M20-90		FLK20-FLK20
17	21	21.2	FLK21-M20		FLK21-PG16	FLK21-PL20	FLK21-M20-90	FLK21-PG16-90	FLK21-FLK21
17	21								
17	21								
	25	25.0	FLK25-M25	FLK25-M25-PP		FLK25-PL25	FLK25-M25-90		FLK25-FLK25
22	25.4	25.4							
23	28	28.5	FLK28-M25		FLK28-PG21	FLK28-PL25	FLK28-M25-90	FLK28-PG21-90	FLK28-FLK28
23	28								
29	34	34.5	FLK34-M32	FLK34-M32-PP	FLK34-PG29	FLK34-PL32	FLK34-M32-90	FLK34-PG29-90	FLK34-FLK34
29	34								
36	42	42.5	FLK42-M40*						
36	42								
48	54	54.5	FLK54-M50*						
48	54								
56	67	67.0							

ORDERING NOTES

- Specify black or grey (B=Black, G=Grey) eg. FLK20-M20B
- For white version see page 69

* Coming soon

ALSO AVAILABLE

- Push in fitting removal tool - see accessories page 75
- Brass threaded versions

SPECIALS



White Products

NEW

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



CONDUIT

FITTINGS

FPP	FLK	FLK90	FLK-FLK	FCL	FCL-P
For details see page 52	straight external thread One piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.	90° elbow external thread One piece, slim, fast fit, external threaded 90 degree elbow fitting suitable for knockouts.	coupler One piece, slim, fast fit coupler for joining 2 conduits together.	nylon conduit clip with integral lid Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent conduit from pulling through.	nylon conduit clip with integral lid Nylon PA66 conduit clip with integral lid for increased security and plain ID for rigid conduit.

FPL

For details see page 76



nominal size (mm)

OD mm

	FPP 50m coil	FPL 50m & 100m coil	Ext Metric	Ext Metric			
20	20.0	FPP20W-50M FPL20W-100M	FLK20-M20W	FLK20-M20-90W	FLK20-FLK20W	FCL20W	FCL20W-P
25	25.0	FPP25W-50M FPL25W-50M	FLK25-M25W	FLK25-M25-90W	FLK25-FLK25W	FCL25W	FCL25W-P
34	34.5	FPP34W-50M	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

Cable Glands white

IP68



Thread No.	White Part No.	Thread Length (mm)	Cable Dia (min) (mm)	Cable Dia (max) (mm)	Spanner Size (mm)	Pack Quantity
M16	CGM16W	11	5	10	22	100
M20	CGM20SW	11	6	12	24	100
M20	CGM20W	11	10	14	27	100
M25	CGM25W	11	13	18	33	50

supplied with locknut

For other colours see page 79

STANDARDS





MP, MP90 & T system

Construction: Nylon compression fittings.
Colour - black, grey on request*.

MP fitting with nylon retaining clip provides a pull off strength of 20kg with FPAS21 and IP40.

MPS fitting with a neoprene sealing ring provides a pull off strength of 15kg with FPAS21 and IP67.

FITTINGS

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

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

7	10	10.0						
7	10							
8	11	11.5						
10	13	13.0	MP-12-M16	MPS-12-M16			T12X12X12	TS12X12X12
10	13							
10	13							
12	16	15.8	MP-16-M16	MPS-16-M16	MP90-16-M16	MPS90-16-M16	T16X16X16	TS16X16X16
12	16		MP-16-M20	MPS-16-M20	MP90-16-M20	MPS90-16-M20		
12	16							
12	16	16.1	MP-16-M16	MPS-16-M16	MP90-16-M16	MPS90-16-M16	T16X16X16	TS16X16X16
14	18	18.5						
14	18							
	20	20.0	MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20	T20X20X20	TS20X20X20
17	21	21.2	MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20	T20X20X20	TS20X20X20
17	21							
17	21							
	25	25.0	MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25	T25X25X25	TS25X25X25
22	25.4	25.4	MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25	T25X25X25	TS25X25X25
23	28	28.5	MP-28-M25	MPS-28-M25	MP90-28-M25	MPS90-28-M25		
23	28							
29	34	34.5	MP-32-M32	MPS-32-M32	MP90-32-M32	MPS90-32-M32		
29	34							
36	42	42.5	MP-40-M40	MPS-40-M40	MP90-40-M40	MPS90-40-M40		
36	42							
48	54	54.5	MP-50-M50	MPS-50-M50	MP90-50-M50	MPS90-50-M50		
48	54							
56	67	67.0						

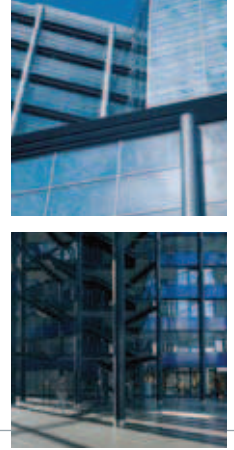
ORDERING NOTES

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

MSL & MPC system

MSL moulded in nylon or PP hinged fitting black and grey RAL7031.
Pull off strength 10kg with FPP21.

MPC nylon compression fitting black. Pull off strength 15kg with FPY20.

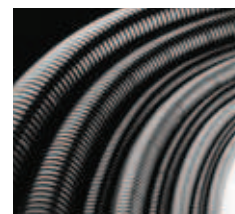


MSL		MPC		EC	FCL	nominal size (mm)	OD mm	european (NW) sizes
straight hinged fitting external thread		straight nylon external thread		end cap	nylon conduit clip with integral lid			
Nylon and PP hinged, snap on fittings including locknuts.		Nylon compression fitting, external thread including locknut.		Nylon PA66 end cap to snap over end of conduit and provide a smooth entry bush.	Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent conduit from pulling through.			
Ext Metric (Nylon)	Ext Metric (PP)	Ext Metric		End Cap	Conduit Clip			
					FCL10	10	10.0	7
						10		7
						11	11.5	8
		MPC-12-M16			FCL13	13	13.0	10
						13		10
				EC16B	FCL16	16	15.8	12
						16		12
		MPC-16-M16			FCL16	16	16.1	12
					FCL18	18	18.5	14
						18		14
MSL-21-M20	MSL-21-M20-PP	MPC-20-M20		EC21B	FCL20	20	20.0	
					FCL21	21	21.2	17
						21		17
						21		17
					FCL25	25	25.0	
MSL-26-M25	MSL-26-M25-PP	MPC-25-M25			FCL25	25.4	25.4	22
				EC28B	FCL28	28	28.5	23
						28		23
		MPC-32-M32		EC34B	FCL34	34	34.5	29
						34		29
				EC42B	FCL42	42	42.5	36
						42		36
				EC54B	FCL54	54	54.5	48
						54		48
						67	67.0	56

STANDARDS



BS EN IEC 61386





FPCB system

spiral reinforced pvc

FPCG, FPCGN & FPCBU system



spiral reinforced pvc with special properties

IP65

CONDUIT

FITTINGS

FPCB

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

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).

FPCG

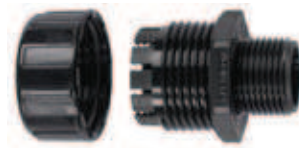
Construction: As FPCB except colour grey.

Typical Applications: As FPCB

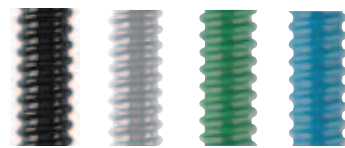
FPCBU

Construction: As FPCB except colour blue.

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



nominal size (mm)	FPC				reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number
	part number	Black	Grey (RAL 7001)	Green (RAL 6001)						
12	FPC12B	FPC12G*	FPC12GN*	FPC12BU*	30	14.5	10.0	25	MPC-12-M16	MPC-12-PG9
16	FPC16B	FPC16G*	FPC16GN*	FPC16BU*	30	16.5	12.0	25	MPC-16-M16	MPC-16-PG11
16									MPC-16-M20	MPC-16-PG13
20	FPC20B	FPC20G*	FPC20GN*	FPC20BU*	30	21.0	16.0	35	MPC-20-M20	MPC-20-PG16
25	FPC25B	FPC25G*	FPC25GN*	FPC25BU*	30	27.5	22.0	45	MPC-25-M25	MPC-25-PG21
30	FPC30B*	FPC30G*			30	30.5	25.0	55	MPC-30-M30*	MPC-30-PG29*
32	FPC32B	FPC32G*	FPC32GN*	FPC32BU*	10,30	33.5	28.0	60	MPC-32-M32	MPC-32-PG29
40	FPC40B	FPC40G*	FPC40GN*	FPC40BU*	10,30	41.0	35.0	80	MPC-40-M40	MPC-40-PG36
50	FPC50B	FPC50G*	FPC50GN*	FPC50BU*	10,30	46.4	40.0	105	MPC-50-M50	MPC-50-PG42
63	FPC63B	FPC63G*	FPC63GN*	FPC63BU*	10,30	57.0	50.0	120	MPC-63-M63	MPC-63-PG48



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

ALTERNATIVES



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)
- FPCB (black) is UV resistant
- FPCGN (green) is oil resistant
- Self extinguishing
- Metric threads supplied complete with locknuts
- UL recognised to UL1696 for use in US and Canada



IP65

MPC90

90° 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).



metric thread
part number

PG thread
part number

IP65

MPC45

45° elbow nylon compression fitting external thread

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).



metric thread
part number

MPC90-16-M16	MPC90-16-PG11	MPC45-16-M20
MPC90-16-M20	MPC90-16-PG13	
MPC90-20-M20	MPC90-20-PG16	MPC45-20-M20
MPC90-25-M25	MPC90-25-PG21	MPC45-25-M25
		MPC45-32-M32
MPC90-32-M32	MPC90-32-PG29	
MPC90-40-M40	MPC90-40-PG36	

STANDARDS



BS EN IEC 61386



* refer to conduit properties for applicable standards

TECHNICAL DRAWING





LPC system

smooth spiral reinforced pvc

LPCO, LPCGN & LPCBU system

smooth spiral reinforced pvc with special properties



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: Food processing machines and wash-down installations.

LPCGN

Construction: As LPC except colour green.

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

LPCO

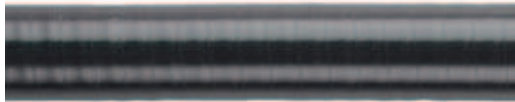
Construction: As LPC except colour orange.

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

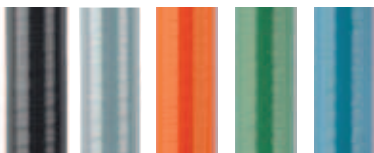
LPCBU

Construction: As LPC except colour blue.

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



nominal size (mm)	LPC					real length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
	part number	Grey (RAL 7001)	Orange (RAL 2008)	Green (RAL 6001)	Blue (RAL 5012)				
12	LPC12B	LPC12G*	LPC12O*	LPC12GN*	LPC12BU*	30	14.2	10.0	50
16	LPC16B	LPC16G	LPC16O	LPC16GN*	LPC16BU*	30	17.8	12.6	50
16									
20	LPC20B	LPC20G	LPC20O	LPC20GN*	LPC20BU*	10,30	21.1	16.0	70
25	LPC25B	LPC25G	LPC25O	LPC25GN*	LPC25BU*	10,30	26.4	21.0	90
32	LPC32B	LPC32G	LPC32O	LPC32GN*	LPC32BU*	10,30	33.1	26.5	140
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



FITTINGS



MPC

straight nylon compression fitting external thread including locknut

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



MPC90

90° 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).



metric thread part number

PG thread part number

NPT thread part number

metric thread part number

PG thread part number

metric thread part number	PG thread part number	NPT thread part number	metric thread part number	PG thread part number
MPC-16-M16	MPC-16-PG11	MPC-16-050	MPC90-16-M16	MPC90-16-PG11
MPC-16-M20	MPC-16-PG13		MPC90-16-M20	MPC90-16-PG13
MPC-20-M20	MPC-20-PG16	MPC-20-050	MPC90-20-M20	MPC90-20-PG16
MPC-25-M25	MPC-25-PG21	MPC-25-075	MPC90-25-M25	MPC90-25-PG21
MPC-32-M32	MPC-32-PG29	MPC-32-100	MPC90-32-M32	MPC90-32-PG29
MPC-40-M40	MPC-40-PG36	MPC-40-125	MPC90-40-M40	MPC90-40-PG36
MPC-50-M50	MPC-50-PG42			
MPC-63-M63	MPC-63-PG48			

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)

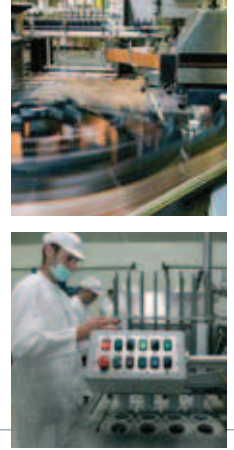
- other colours
- conduit couplers
- 45 degree brass elbow
- combined conduit fitting with cable gland, see page 43

ALTERNATIVES



properties

- Smooth, wipe clean surface
- Accepts some torsional movement
- IP rating: IP67 with MPC fittings
 - IP66, IP67, IP68 (2 bar) + IP69K with metal C-type compression fittings
- Temperature range -5°C to +70°C
- LPCBU (blue) temperature range -20°C to +90°C
- 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



IP66 IP67		IP66 IP67 IP68 IP69K			IP66 IP67 IP68 IP69K				IP66 IP67 IP68 IP69K				IP66 IP67 IP68 IP69K							
MPC45		C			C-S				C90				CSS				C90-SS			
		NEW			NEW				NEW				NEW							
45° elbow nylon fitting external thread		external metric thread nickel plated brass			swivel external thread NPB				external thread NPB				external thread stainless steel				external thread stainless steel			
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).		Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.			Compression fitting for knockout or threaded entries. Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.				Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.				Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.				Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.			
metric thread part number	metric thread part number	PG thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	metric thread part number	nominal size (mm)	
	LPC12-M16-C								LPC12-M16-C90										12	
MPC45-16-M20	LPC16-M16-C	LPC16-PG11-C	LPC16-M16-S	LPC16-M16-C90	LPC16-M16-CSS	LPC16-M20-CSS90													16	
	LPC16-M20-C	LPC16-PG13-C	LPC16-M20-S	LPC16-M20-C90	LPC16-M20-CSS	LPC16-M20-CSS90													16	
MPC45-20-M20	LPC20-M20-C	LPC20-PG16-C	LPC20-M20-S	LPC20-M20-C90	LPC20-M20-CSS	LPC20-M20-CSS90													20	
MPC45-25-M25	LPC25-M25-C	LPC25-PG21-C	LPC25-M25-S	LPC25-M25-C90	LPC25-M25-CSS	LPC25-M25-CSS90													25	
MPC45-32-M32	LPC32-M32-C	LPC32-PG29-C	LPC32-M32-S	LPC32-M32-C90	LPC32-M32-CSS	LPC32-M32-CSS90													32	
	LPC40-M40-C			LPC40-M40-C90															40	
	LPC50-M50-C			LPC50-M50-C90															50	
	LPC63-M63-C			LPC63-M63-C90															63	

STANDARDS

BS EN IEC 61386



TECHNICAL DRAWING





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 63)

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:
 - FLK 25kg
 - MP 20kg
 - MPS 15kg



FITTINGS

IP66

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.

IP40

MP

straight external thread

Straight nylon compression fitting including locknut.

IP67

MPS

straight external thread

Straight nylon compression fitting with seal external thread including locknut.



MP shown

nominal size (mm)

FPL
part number

reel length (m)

outside dia (mm)

inside dia (mm)

min inside bend radius (mm)

metric thread part number

metric thread part number

metric thread part number

metric thread part number

16	FPL16	100	16.0	12.0	25	FLK16-M16	FLK16-M16-90	MP-16-M16	MPS-16-M16
16						FLK16-M20	FLK16-M20-90	MP-16-M20	MPS-16-M20
20	FPL20	100	20.0	15.0	30	FLK20-M20	FLK20-M20-90	MP-20-M20	MPS-20-M20
25	FPL25	50	25.0	19.5	40	FLK25-M25	FLK25-M25-90	MP-25-M25	MPS-25-M25
34	FPL32	25	34.5	27.9	50	FLK34-M32	FLK34-M32-90	MP-32-M32	MPS-32-M32

* Push in fittings available on Page 68

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

DON'T FORGET



See page 52

STANDARDS

BS EN IEC 61386



FPY system

large diameter nylon



IP40 IP65

CONDUIT

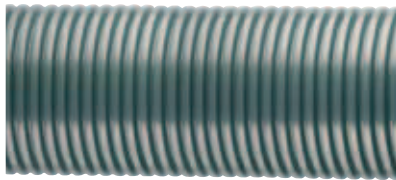
FPY

Construction:

Nylon (PA6) corrugated flexible conduit. Colour black or grey.

Typical Applications: Machines and large control cabinets.

- Highly flexible
- High impact strength and recovers if crushed
- IP rating: IP40 or IP65
- Temperature range -40°C to +120°C
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free
- UV resistant (black)



European (NW) sizes nominal size (mm)	FPY part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
70 80	FPY80	10	80.0	67.0	160
95 106	FPY106	10	106.0	91.5	210

FITTINGS

MP

straight flanged nylon clamp fitting

Flanged body with 2 clamps.

MPS

straight flanged nylon clamp fitting with seals

Flanged body with 2 clamps and seals.

MP90

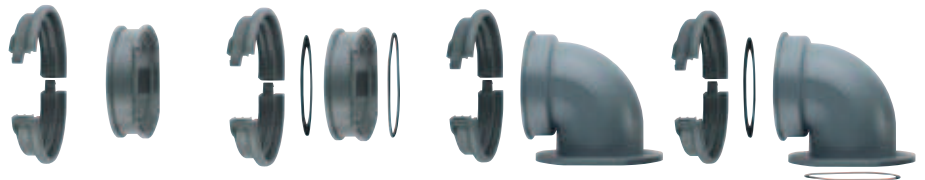
90° flanged nylon clamp fitting

Flanged 90° body with 2 clamps.

MPS90

90° flanged nylon clamp fitting with seals

Flanged 90° body with 2 clamps and seals.



termination	part number	termination	part number	termination	part number	termination	part number
FL	MP-80-FL	FL	MPS-80-FL	FL	MP90-80-FL	FL	MPS90-80-FL
FL	MP-106-FL	FL	MPS-106-FL	FL	MP90-106-FL	FL	MPS90-106-FL

ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) eg: FPY80B-10M for Black 10m reel
- Available on request:
 - longer lengths and bulk packaging
 - cut lengths and assemblies
 - alternative conduit material
- FCC80 and FCC106 PVC lined plated steel P-clips

STANDARDS

BS EN IEC 61386

