



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.



IP40

MSL

straight hinged fitting external thread

Nylon and PP hinged, snap on fittings including locknuts.



Ext Metric (Nylon)

Ext Metric (PP)

IP65

MPC

straight nylon external thread

Nylon compression fitting, external thread including locknut.



Ext Metric

EC

end cap

Nylon PA66 end cap to snap over end of conduit and provide a smooth entry bush.



End Cap

FCL

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.



Conduit Clip

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

MSL		MPC		EC	FCL	nominal size (mm)	OD mm	european (NW) sizes
					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
						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
MSL-26-M25	MSL-26-M25-PP	MPC-25-M25			FCL25	25	25.0	
					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

IP65

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
- **Available on request:** additional sizes, alternative threads, other colours
- * Indicates parts made to order on request and may be subject to MOQ and lead time
- For UL recognised black conduit order FPCURB*

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).

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

PG thread
part number



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.

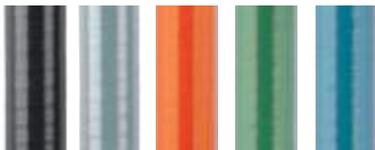
LPCBU

Construction: As LPC except colour blue.

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



nominal size (mm)	LPC					reel 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
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



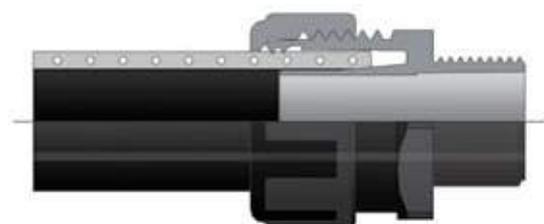
IP66 IP67		IP66 IP67 IP68 IP69K			IP66 IP67 IP68 IP69K				IP66 IP67 IP68 IP69K				IP66 IP67 IP68 IP69K							
MPC45		C			C-S				C90				CSS				C90-SS			
					NEW								NEW				NEW			
45° elbow nylon fitting external thread		external metric thread nickel plated brass			swivel external thread NPB				external 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			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									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



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



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

FITTINGS

FLK

straight external thread

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



FLK90

90° elbow external thread

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



MP

straight external thread

Straight nylon compression fitting external thread including locknut.



MP shown

MPS

straight external thread

Straight nylon compression fitting with seal external thread including locknut.

| 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 |
| 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



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						
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

