



IP40

IP67

# 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
	<b>straight external thread</b>	<b>straight external thread</b>	<b>90° elbow external thread</b>	<b>90° elbow external thread</b>	<b>T Piece fitting</b>	<b>T Piece fitting with seals</b>
	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

IP40  
T shown

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
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
14	18	18.5				
14	18					
	20	20.0	MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20
17	21	21.2	MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20
17	21					
17	21					
	25	25.0	MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25
22	25.4	25.4	MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25
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

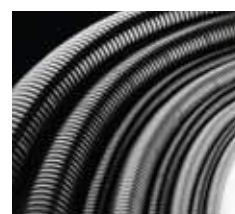
European (NW) sizes

				FCL10	10	10.0	7
					10		7
					11	11.5	8
		MPC-12-M16		FCL13	13	13.0	10
					13		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
				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

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

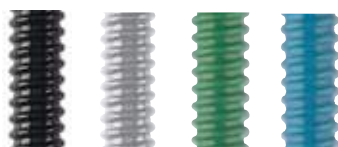
### FPCBU

**Construction:** As FPCB except colour blue.

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



nominal size (mm)	FPC part number Black	Grey (RAL 7001)	Green (RAL 6001)	Blue (RAL 5012)	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number
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).

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

IP67

IP68

IP69K

### 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.

### 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).

#### 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 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)
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


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	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							
						LPC12-M16-C								LPC12-M16-C90															
MPC45-16-M20						LPC16-M16-C				LPC16-PG11-C				LPC16-M16-S				LPC16-M16-C90				LPC16-M16-CSS				LPC16-M20-CSS90			
						LPC16-M20-C				LPC16-PG13-C				LPC16-M20-S				LPC16-M20-C90				LPC16-M20-CSS							
MPC45-20-M20						LPC20-M20-C				LPC20-PG16-C				LPC20-M20-S				LPC20-M20-C90				LPC20-M20-CSS				LPC20-M20-CSS90			
MPC45-25-M25						LPC25-M25-C				LPC25-PG21-C				LPC25-M25-S				LPC25-M25-C90				LPC25-M25-CSS				LPC25-M25-CSS90			
MPC45-32-M32						LPC32-M32-C				LPC32-PG29-C				LPC32-M32-S				LPC32-M32-C90				LPC32-M32-CSS				LPC32-M32-CSS90			
						LPC40-M40-C												LPC40-M40-C90											
						LPC50-M50-C												LPC50-M50-C90											
						LPC63-M63-C												LPC63-M63-C90											

# 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 external thread including locknut.



MP shown

IP67

### MPS

**straight external thread**

Straight nylon compression fitting with seal external thread including locknut.

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					
20	FPL20	100	20.0	15.0	30
25	FPL25	50	25.0	19.5	40
34	FPL32	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
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)



### 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.



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

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

