



# Betaflex flexible conduit solutions

The highly regarded Betaflex range includes polypropylene, halogen-free, rail approved and galvanised steel conduit. A matched range of accessories and tooling are also available for this group of products.

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## Betaflex 1 polypropylene conduit & accessories

### Betaflex polypropylene conduit

Betaflex 1 corrugated conduit is manufactured from virgin polypropylene and has self-extinguishing, low toxicity, low smoke density characteristics. It is generally used for public building and industrial use where limited mechanical protection is required. Available in black, grey and white. Other colours and larger diameters are available upon request - minimum order quantities may apply.



#### COLOUR OPTIONS

STANDARD COLOURS

BLACK

GREY

WHITE

AVAILABLE ON REQUEST Minimum order quantities apply

BLUE

RED

ORANGE

YELLOW

#### Betaflex polypropylene conduit Reels

Part number	Colour	Outside dia. (mm)	Inside dia. (mm)	Min. inside bend radius (mm)	Reel (m)
CC 10B	Black	10	7	15	50
CC 12B	Black	12	10	20	50
CC 16B	Black	16	11	24	100
CC 20B	Black	20	14	32	100
CC 25B	Black	25	18	40	50
CC 32B	Black	32	24	56	25
CC 40B	Black	40	31	64	25
CC 50B	Black	50	40	100	25
CC 10G	Grey	10	7	15	50
CC 12G	Grey	12	10	20	50
CC 16G	Grey	16	11	24	100
CC 20G	Grey	20	14	32	100
CC 25G	Grey	25	18	40	50
CC 32G	Grey	32	24	56	25
CC 40G	Grey	40	31	64	25
CC 50G	Grey	50	40	100	25
CC 10W	White	10	7	15	50
CC 12W	White	12	10	20	50
CC 16W	White	16	11	24	100
CC 20W	White	20	14	32	100
CC 25W	White	25	18	40	50
CC 32W	White	32	24	56	25
CC 40W	White	40	31	64	25
CC 50W	White	50	40	100	25

#### SPECIFICATIONS

**Material**  
Polypropylene, self-extinguishing, low toxicity, low smoke density

**IP rating** IP 54

**Service temperature rating**  
-15°C to +90°C

**Standards**  
EN 50086-1, EN50086-2.2

#### Betaflex 1 contractor packs

Now available see p.574 for more information.

## Betaflex 1 straight glands

Betaflex 1 straight glands including locknuts, are available in black, grey and white.

#### SPECIFICATIONS

**Material**  
Polypropylene, self-extinguishing, low toxicity, low smoke density

**IP rating**  
IP 44

**Service temperature rating**  
-5°C to +90°C

#### COLOUR OPTIONS

BLACK

GREY

WHITE



#### Betaflex 1 straight glands

Part number	Colour	Thread size	Conduit size (mm)	Pack quantity
CCF 16B M16	Black	M16	16	1
CCF 20B M20	Black	M20	20	1
CCF 25B M25	Black	M25	25	1
CCF 32B M32	Black	M32	32	1
CCF 40B M40	Black	M40	40	1
CCF 50B M50	Black	M50	50	1
CCF 16G M16	Grey	M16	16	1
CCF 20G M20	Grey	M20	20	1
CCF 25G M25	Grey	M25	25	1
CCF 32G M32	Grey	M32	32	1
CCF 40G M40	Grey	M40	40	1
CCF 50G M50	Grey	M50	50	1
CCF 16W M16	White	M16	16	1
CCF 20W M20	White	M20	20	1
CCF 25W M25	White	M25	25	1
CCF 32W M32	White	M32	32	1
CCF 40W M40	White	M40	40	1
CCF 50W M50	White	M50	50	1



## Betaflex 1 contractor packs

Betaflex 1 contractor pack contains: 10 metres of conduit, 10 fittings and 10 locknuts.

### SPECIFICATIONS

**Material**  
Polypropylene, self-extinguishing, low toxicity, low smoke density.

**IP rating**  
IP 44

**Service temperature rating**  
-5°C to +90°C



### Betaflex 1 contractor packs

Part number	Description	Colour	Conduit size (mm)	Pack quantity
CC16B CP	10 metres of conduit, 10 fittings & 10 locknuts	Black	16	1
CC20B CP	10 metres of conduit, 10 fittings & 10 locknuts	Black	20	1
CC25B CP	10 metres of conduit, 10 fittings & 10 locknuts	Black	25	1
CC32B CP	10 metres of conduit, 10 fittings & 10 locknuts	Black	32	1

## Betaflex 1 polypropylene split conduit

Betaflex 1 polypropylene split conduit for fast protection of loose cables available in sizes 10mm to 32mm. Applicator tool is included for sizes 16-32mm. The conduit is slit along its length to enable installation over cables in situ.

### SPECIFICATIONS

**Material**  
Polypropylene, self-extinguishing, low toxicity, low smoke density.

**Service temperature rating**  
-5°C to +90°C



### Betaflex 1 polypropylene split conduit

Part number	Colour	Conduit size (mm)	Tool included	Pack quantity (m)
CC10C	Black	10	-	50
CC16C	Black	16	Yes	100
CC20C	Black	20	Yes	100
CC25C	Black	25	Yes	50
CC32C	Black	32	Yes	50

## Betaflex 1 P-Clips



### SPECIFICATIONS

**Material** Galvanised steel with elastomer liner. Free of halogen, phosphorus and cadmium.

### Betaflex 1 P-Clips

Part number	Colour	Conduit size (mm)	Pack quantity
PC 10	Black	10	1
PC 12	Black	12	1
PC 16	Black	16	1
PC 20	Black	20	1
PC 25	Black	25	1
PC 32	Black	32	1
PC 40	Black	40	1
PC 50	Black	50	1

## Betaflex 1 U-Clips



### SPECIFICATIONS

**Material** Nylon

### Betaflex 1 U-Clips

Part number	Colour	Conduit size (mm)	Pack quantity
UC 12	Black	12	1
UC 16	Black	16	1
UC 20	Black	20	1
UC 25	Black	25	1
UC 32	Black	32	1
UC 40	Black	40	1
UC 50	Black	50	1

## Betaflex 1 & Betaflex 2 conduit cutting tool

Suitable for use with Betaflex 1, Betaflex 2 and Betaflex 3 conduits. Ideal for cutting conduit from 6mm to 40mm diameter.

### Betaflex 1 & Betaflex 2 conduit cutting tool

Part number	Description	Cutting capacity dia. (mm)
BCT 1	Conduit cutting tool	6 - 40





## Betaflex 2 polyamide conduit & accessories

### Betaflex 2 conduit



Medium-wall, flexible, corrugated conduit is used for insulating and mechanical protection of cables in the electrical installation of machinery and industrial equipment in accordance with standard EN 60204-1 (Safety of Machinery). Special patented profile for housing the ORJ sealing O-Ring, when IP 68 protection is required.

#### SPECIFICATIONS

- Material**  
Polyamide (PA 6) - Free of halogen, phosphorus and cadmium, self-extinguishing
- IP rating** IP 68
- Service temperature rating**  
-40°C to +105°C
- Standards**  
EN 60204-1 (Safety of Machinery)  
UL 1696 Standard  
CSA C22.2 No. 227.3  
NF F 16-101 Standard  
DIN 5510 Standard  
DIN 40050-7 Standard



#### Betaflex 2 polyamide conduit Reels

Part number	Colour	Conduit size (mm)	Outside dia. (mm)	Inside dia. (mm)	Min. bending radius (mm)	Reel quantity (m)
ECT-12B	Black	12	13.0	9.7	20	50
ECT-16B	Black	16	15.8	12.2	30	50
ECT-20B	Black	20	21.2	16.8	40	50
ECT-25B	Black	25	28.5	22.8	55	50
ECT-32B	Black	32	34.5	28.5	65	50
ECT-40B	Black	40	42.5	36.6	80	30
ECT-50B	Black	50	54.5	47.6	95	30
ECT-12G	Grey	12	13.0	9.7	20	50
ECT-16G	Grey	16	15.8	12.2	30	50
ECT-20G	Grey	20	21.2	16.8	40	50
ECT-25G	Grey	25	28.5	22.8	55	50
ECT-32G	Grey	32	34.5	28.5	65	50
ECT-40G	Grey	40	42.5	36.6	80	30
ECT-50G	Grey	50	54.5	47.6	95	30

### Betaflex 2 straight glands



Straight metric male glands in accordance with EN 60423, are ideal for fixing the ends of flexible corrugated conduits to cable entries on control panels, terminal boxes on electric motors etc. In accordance with standard EN 60204 (Safety of machinery). They are notable for their high tensile strength and tightness. Easy-click, quick assembly and removal of the conduit without tools.

#### SPECIFICATIONS

- Material**  
Polyamide (PA 6) - Free of halogen, phosphorus and cadmium. Self-extinguishing, shock-resistant
- IP rating**  
IP 66 Protection. IP68 with ORJ O-Rings.
- Service temperature rating**  
-40°C to +105°C
- Standards**  
EN 60204 (Safety of machinery)



#### Betaflex 2 straight glands

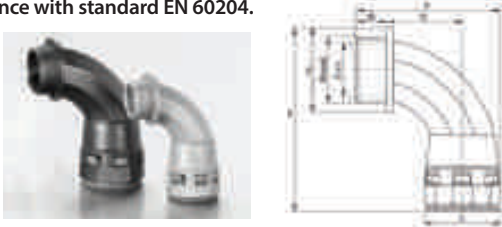
Part number	Colour	Conduit size (mm)	Thread size	Internal dia.(mm)	Dimensions (mm)					Pack qty
					A	C	D	Tool size	LR	
MIR-12B	Black	12	M16x1.5	10.0	37	21	21	18	11	1
MIR-16B	Black	16	M16x1.5	10.0	37	21	21	20	11	1
MIR-20B	Black	20	M20x1.5	14.5	44	31	30	27	11	1
MIR-25B	Black	25	M25x1.5	18.5	48	37	37	34	12	1
MIR-32B	Black	32	M32x1.5	25.5	52	46	46	42	15	1
MIR-40B	Black	40	M40x1.5	32.0	60	54	54	50	19	1
MIR-50B	Black	50	M50x1.5	42.0	61	69	69	66	19	1
MIR-12G	Grey	12	M16x1.5	10.0	37	21	21	18	11	1
MIR-16G	Grey	16	M16x1.5	10.0	37	21	21	20	11	1
MIR-20G	Grey	20	M20x1.5	14.5	44	31	30	27	11	1
MIR-25G	Grey	25	M25x1.5	18.5	48	37	37	34	12	1
MIR-32G	Grey	32	M32x1.5	25.5	52	46	46	42	15	1
MIR-40G	Grey	40	M40x1.5	32.0	60	54	54	50	19	1
MIR-50G	Grey	50	M50x1.5	42.0	61	69	69	66	19	1



### Betaflex 2 90° curved elbow metric thread connector



Ideal for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes, electric motors etc. High tensile strength, tight joint, self-extinguishing and shock-resistant. In accordance with standard EN 60204.



#### SPECIFICATIONS

**Material** Polyamide (PA 6) - Free of halogen, phosphorus and cadmium

**IP rating** IP 66 Protection. IP68 with ORJ O-Rings

**Service temperature rating** -40°C to +105°C

**Standards** EN 60204 (Safety of machinery)

Flexible conduit solutions

Flexible conduit solutions

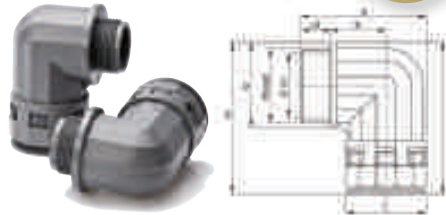
#### Betaflex 2 90° curved elbow metric thread connector

Part number black	Part number grey	Conduit size (mm)	Thread size (mm)	Int. dia (mm)	Dimensions (mm)						Pack qty
					A	B	C	D	H	LR	
NBC-20M25B	NBC-20M25G	20	M25x1.5	17.5	52	75	28	34	26	12	1
NBC-25M32B	NBC-25M32G	25	M32x1.5	25.7	69	89	36	40	36	15	1
NBC-32M40B	NBC-32M40G	32	M40x1.5	32.3	81	101	43	50	40	19	1
NBC-40M50B	NBC-40M50G	40	M50x1.5	40.0	98	124	51	60	53	19	1
NBC-50M63B	NBC-50M63G	50	M63x1.5	53.6	106	141	66	75	54	19	1

### Betaflex 2 90° elbow metric thread connector



Ideal for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes, electric motors etc. High tensile strength, tight joint, self-extinguishing and shock-resistant.



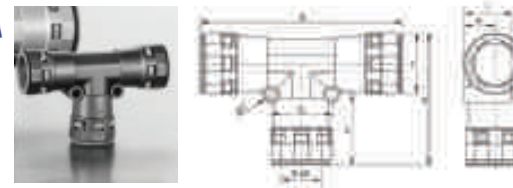
#### Betaflex 2 90° elbow metric thread connector

Part number black	Part number grey	Conduit size (mm)	Thread size (mm)	Int. dia (mm)	Dimensions (mm)						Pack qty
					A	B	C	D	H	LR	
NEC-12M16B	NEC-12M16G	12	M16x1.5	10.0	35	42	21	21	11	11	1
NEC-16M16B	NEC-16M16G	16	M16x1.5	10.5	39	44	25	23	15	11	1
NEC-20M20B	NEC-20M20G	20	M20x1.5	14.5	45	58	30	30	18	11	1
NEC-25M25B	NEC-25M25G	25	M25x1.5	18.5	53	66	36	37	23	12	1
NEC-32M32B	NEC-32M32G	32	M32x1.5	25.5	66	76	45	46	27	15	1
NEC-40M40B	NEC-40M40G	40	M40x1.5	32.0	79	89	54	55	33	19	1
NEC-50M50B	NEC-50M50G	50	M50x1.5	42.0	92	103	68	69	39	19	1

### Betaflex 2 T distributor connectors



T distributor connectors are designed to join three conduits of the same nominal diameter when small bending radiuses have to be avoided. They are notable for their high tensile strength and tightness. Self-extinguishing and shock-resistant.



#### SPECIFICATIONS

**Material** Polyamide (PA 6) - Free of halogen, phosphorus and cadmium

**IP rating** IP 66 Protection. IP68 with ORJ O-Rings

**Service temperature rating** -40°C to +105°C

**Standards** EN 60204 (Safety of machinery)

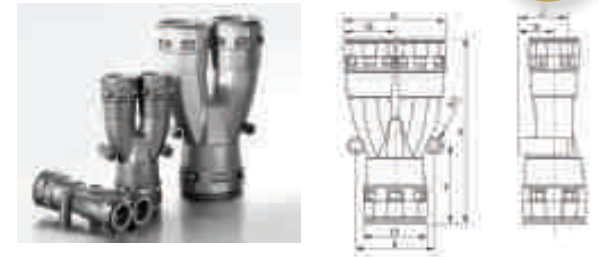
#### Betaflex 2 T distributor connectors

Part number black	Part number grey	Conduit size (mm)	Int. dia (mm)	Dimensions (mm)								Pack qty
				A	B	C	E	F	G	H	J	
TSD-121212B	TSD-121212G	12	11.2	46	72	20	27	5	19	10	18	1
TSD-161616B	TSD-161616G	16	12.8	52	81	23	30	5	20	12	20	1
TSD-202020B	TSD-202020G	20	18.0	63	96	29	35	6	28	14	25	1
TSD-252525B	TSD-252525G	25	25.5	76	117	37	40	6	36	18	30	1
TSD-323232B	TSD-323232G	32	31.5	85	128	45	41	6	41	22	36	1
TSD-404040B	TSD-404040G	40	38.5	97	144	53	46	7	50	26	44	1

### Betaflex 2 Y distributor connectors



Y distributor connectors are specially designed to join three conduits of a different nominal diameter when small bending radiuses have to be avoided. In accordance with EN 60204.



#### Betaflex 2 Y distributor connectors

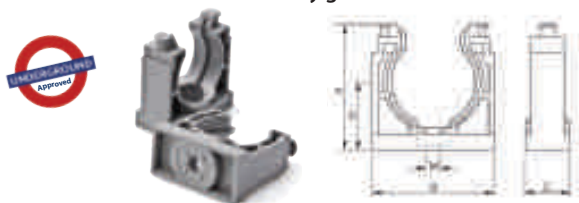
Part number black	Part number grey	Conduit size (mm)	Dimensions (mm)								Pack qty	
			A	B	C1	C2	G	E	F	H		J
YKD-201616B	YKD-201616G	20+2x16	90	48	30	24	34	38	5	16	24	1
YKD-252020B	YKD-252020G	25+2x20	106	58	24	18	45	44	6	12	28	1
YKD-322525B	YKD-322525G	32+2x25	118	74	30	24	52	45	6	15	35	1
YKD-403232B	YKD-403232G	40+2x32	141	89	38	30	60	52	6	19	41	1
YKD-504040B	YKD-504040G	50+2x40	153	106	49	38	76	54	7	25	50	1



## Betaflex 2 SDN supports



SDN supports are ideal for securing sections of corrugated conduits between the various parts of the electrical installation on machines. With conduit entry guide.



### SPECIFICATIONS

**Material** Polyamide (PA 6) - Free of halogen, phosphorus and cadmium

**IP rating** IP 66 Protection

**Service temperature rating** -40°C to +105°C

**Standards** EN 60204 (Safety of machinery)

### Betaflex 2 SDN supports

Part number black	Part number grey	Conduit size (mm)	Dimensions (mm)					Pack qty
			A	B	C	H	M (Bolt)	
SDN-12B	SDN-12G	12	23	21	20	14	M5	1
SDN-16B	SDN-16G	16	26	25	20	15	M5	1
SDN-20B	SDN-20G	20	32	32	20	18	M5	1
SDN-25B	SDN-25G	25	41	40	20	23	M6	1
SDN-32B	SDN-32G	32	47	46	20	26	M6	1
SDN-40B	SDN-40G	40	57	56	20	32	M6	1
SDN-50B	SDN-50G	50	70	70	20	39	M6	1

## Betaflex 2 SWL supports



SWL supports have an integrated lid for securing sections of corrugated conduits between various parts of the electrical installation on machines. Ideal for securing conduit in situations e.g. on ceilings.

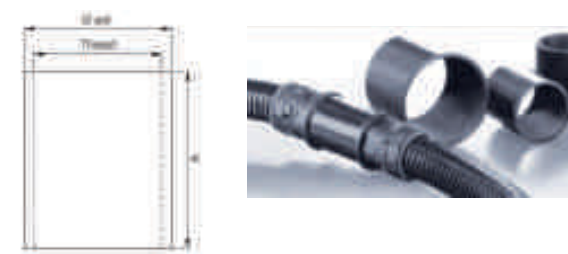


### Betaflex 2 SWL supports

Part number black	Part number grey	Conduit size (mm)	Dimensions (mm)					Pack qty
			A	B	C	H	M (Bolt)	
SWL-12B	SWL-12G	12	22	17	20	13	M5	1
SWL-16B	SWL-16G	16	25	22	20	13	M5	1
SWL-20B	SWL-20G	20	27	25	20	15	M5	1
SWL-25B	SWL-25G	25	33	31	20	19	M5	1
SWL-32B	SWL-32G	32	42	40	20	23	M6	1
SWL-40B	SWL-40G	40	47	46	20	26	M6	1
SWL-50B	SWL-50G	50	56	56	20	31	M6	1

## Betaflex 2 threaded coupler

Threaded couplers for linking two conduit lengths while threading the connectors in each side. Made of rigid thermoplastic, they are specifically designed for longer installations than those possible using only one standard roll length.



### SPECIFICATIONS

**Material** Rigid thermoplastic

**Service temperature rating** -5°C to +70°C

**Colour** Black

### Betaflex 2 threaded coupler

Part number	For thread size	Dimension A (mm)	External dia. (mm)	Pack quantity
COUPLER M16	M16x1.5	30.80	19.70	1
COUPLER M20	M20x1.5	33.65	23.85	1
COUPLER M25	M25x1.5	39.60	29.80	1
COUPLER M32	M32x1.5	44.50	36.90	1
COUPLER M40	M40x1.5	50.00	46.90	1
COUPLER M50	M50x1.5	54.70	56.80	1
COUPLER M63	M63x1.5	60.30	70.60	1

## Betaflex 2 O-Rings

O-Rings can be placed on the first groove at the end of Betaflex 2 corrugated conduit in order to obtain a degree of protection up to IP68 between the conduit and connector.



### Betaflex 2 O-Rings

Part number	Size (mm)	Pack quantity
ORJ-12	12	1
ORJ-16	16	1
ORJ-20	20	1
ORJ-25	25	1
ORJ-32	32	1
ORJ-40	40	1
ORJ-50	50	1



## Betaflex 2 polyamide metric thread locknuts



Hexagonal female metric thread locknuts are made from Polyamide (PA6).



Betaflex 2 polyamide metric thread locknuts			
Part number black	Part number grey	Thread size	Pack quantity
261247	261231	M12x1.5	1
261647	261631	M16x1.5	1
262047	262031	M20x1.5	1
262547	262531	M25x1.5	1
263247	263231	M32x1.5	1
264047	264031	M40x1.5	1
265047	265031	M50x1.5	1
266347	266331	M63x1.5	1

## Betaflex 2 brass metric thread locknuts



Made from nickel-plated brass, these hexagonal female metric thread locknuts are in accordance to EN 60423.



Betaflex 2 brass metric thread locknuts		
Part number	Size (mm)	Pack quantity
311205	M12x1.5	1
311605	M16x1.5	1
312005	M20x1.5	1
312505	M25x1.5	1
313205	M32x1.5	1
314005	M40x1.5	1
315005	M50x1.5	1
316305	M63x1.5	1

## Betaflex 3 corrugated conduit & accessories

### Betaflex 3 conduit



This flexible, corrugated conduit is used for insulating and protecting cables in electrical installations, especially in railway tunnels or underground stations. Also used for general installations with special fire and smoke requirements. Special patented profile for housing the ORJ sealing O-Ring.



**SPECIFICATIONS**

**Material**  
Polyamide (PA 6) - Free of halogen, phosphorus and cadmium. Self-extinguishing

**Service temperature rating** -40°C to +105°C

**Standards**  
UL 1696 Standard, SA C22.2 No. 227.3  
NF F 16-101 Standard, DIN 5510 Standard  
LUL 1-085 A2 Standard, DIN 40050-7 Standard



Betaflex 3 corrugated conduit						
Part number black	Part number grey	Conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Min. bending radius (mm)	Reel quantity (m)
VOT-10N	VOT-10G	10	10.0	6.4	15	50
VOT-12N	VOT-12G	12	13.0	9.8	20	50
VOT-16N	VOT-16G	16	15.8	12.3	30	50
VOT-20N	VOT-20G	20	21.2	16.9	40	50
VOT-25N	VOT-25G	25	28.5	22.7	55	50
VOT-32N	VOT-32G	32	34.5	28.4	65	50
VOT-40N	VOT-40G	40	42.5	36.4	80	30
VOT-50N	VOT-50G	50	54.5	47.5	95	30

Flexible conduit solutions

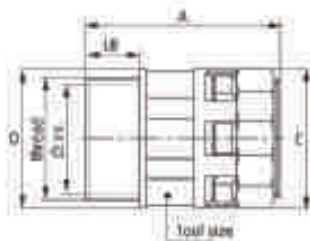
Flexible conduit solutions



## Betaflex 3 straight glands



Straight glands are ideal for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes and electric motors etc. In accordance with standard EN 60204 (Safety of Machinery), these glands are notable for their high tensile strength and tightness. Easy-click, quick assembly and removal of the conduit without tools.



### SPECIFICATIONS

**Material**  
Polyamide (PA 6) - Free of halogen, phosphorus and cadmium.  
Self-extinguishing & shock resistant

**IP rating**  
IP 66 protection. IP68 with ORJ O-Rings

**Service temperature rating**  
-40°C to +105°C

**Standards**  
EN 60204 (Safety of machinery)

### Betaflex 3 straight glands

Part number	Colour	Conduit size (mm)	Thread size	Internal dia. (mm)	Dimensions (mm)					Pack qty
					A	C	D	Tool size	LR	
MIR-12B	Black	12	M16x1.5	10.0	37	21	21	18	11	1
MIR-16B	Black	16	M16x1.5	10.0	37	21	21	20	11	1
MIR-20B	Black	20	M20x1.5	14.5	44	31	30	27	11	1
MIR-25B	Black	25	M25x1.5	18.5	48	37	37	34	12	1
MIR-32B	Black	32	M32x1.5	25.5	52	46	46	42	15	1
MIR-40B	Black	40	M40x1.5	32.0	60	54	54	50	19	1
MIR-50B	Black	50	M50x1.5	42.0	61	69	69	66	19	1
MIR-12G	Grey	12	M16x1.5	10.0	37	21	21	18	11	1
MIR-16G	Grey	16	M16x1.5	10.0	37	21	21	20	11	1
MIR-20G	Grey	20	M20x1.5	14.5	44	31	30	27	11	1
MIR-25G	Grey	25	M25x1.5	18.5	48	37	37	34	12	1
MIR-32G	Grey	32	M32x1.5	25.5	52	46	46	42	15	1
MIR-40G	Grey	40	M40x1.5	32.0	60	54	54	50	19	1
MIR-50G	Grey	50	M50x1.5	42.0	61	69	69	66	19	1



## Betaflex 3 straight metal glands



With similar characteristics to the standard polyamide connectors, the male metal thread connectors are notable for their higher mechanical resistance. Recommended in the most severe conditions. An internal plastic wall on the metal insert avoids a direct contact with the cables. Ideal for use in the rail industry.



### SPECIFICATIONS

**Material**  
Polyamide (PA 6) - Free of halogen, phosphorus and cadmium.  
Self-extinguishing & shock resistant

**IP rating**  
IP 66 protection. IP68 with ORJ O-Rings

**Service temperature rating**  
-40°C to +105°C

**Standards**  
EN 60204 (Safety of machinery)

### Betaflex 3 straight metal glands

Part number	Colour	Conduit size (mm)	Thread size	Internal dia. (mm)	Dimensions (mm)					Pack qty
					A	C	D	Tool size	LR	
MIRM-12M16B	Black	12	M16x1.5	10.0	43	20	24	18	10	1
MIRM-16M16B	Black	16	M16x1.5	10.0	43	25	24	20	10	1
MIRM-20M20B	Black	20	M20x1.5	14.5	47	30	29	27	10	1
MIRM-25M25B	Black	25	M25x1.5	18.5	55	36	35	34	11	1
MIRM-32M32B	Black	32	M32x1.5	25.5	56	44	43	42	13	1
MIRM-40M40B	Black	40	M40x1.5	32.0	61	52	55	50	13	1
MIRM-50M50B	Black	50	M50x1.5	42.0	62	69	67	66	14	1
MIRM-12M16G	Grey	12	M16x1.5	10.0	43	20	24	18	10	1
MIRM-16M16G	Grey	16	M16x1.5	10.0	43	25	24	20	10	1
MIRM-20M20G	Grey	20	M20x1.5	14.5	47	30	29	27	10	1
MIRM-25M25G	Grey	25	M25x1.5	18.5	55	36	35	34	11	1
MIRM-32M32G	Grey	32	M32x1.5	25.5	56	44	43	42	13	1
MIRM-40M40G	Grey	40	M40x1.5	32.0	61	52	55	50	13	1
MIRM-50M50G	Grey	50	M50x1.5	42.0	62	69	67	66	14	1





### Betaflex 3 90° curved elbow metric thread connector



Ideal for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes, electric motors etc. High tensile strength, tight joint, self-extinguishing and shock-resistant. In accordance with standard EN 60204.

#### SPECIFICATIONS

**Material** Polyamide (PA 6) - free of halogen, phosphorus and cadmium

**IP rating** IP 66 Protection. IP68 with ORJ O-Rings

**Service temperature rating** -40°C to +105°C

**Standards** EN 60204 (Safety of machinery)



#### Betaflex 3 90° curved elbow metric thread connector

Part number black	Part number grey	Conduit size (mm)	Thread size (mm)	Int. dia (mm)	Dimensions (mm)						Pack qty
					A	B	C	D	H	LR	
NBC-20M25B	NBC-20M25G	20	M25x1.5	17.5	52	75	28	34	26	12	1
NBC-25M32B	NBC-25M32G	25	M32x1.5	25.7	69	89	36	40	36	15	1
NBC-32M40B	NBC-32M40G	32	M40x1.5	32.3	81	101	43	50	40	19	1
NBC-40M50B	NBC-40M50G	40	M50x1.5	40.0	98	124	51	60	53	19	1
NBC-50M63B	NBC-50M63G	50	M63x1.5	53.6	106	141	66	75	54	19	1

### Betaflex 3 90° elbow metric thread connector



Ideal for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes, electric motors etc. High tensile strength, tight joint, self-extinguishing and shock-resistant.



#### Betaflex 3 90° elbow metric thread connector

Part number black	Part number grey	Conduit size (mm)	Thread size (mm)	Int. dia (mm)	Dimensions (mm)						Pack qty
					A	B	C	D	H	LR	
NEC-12M16B	NEC-12M16G	12	M16x1.5	10.0	35	42	21	21	11	11	1
NEC-16M16B	NEC-16M16G	16	M16x1.5	10.5	39	44	25	23	15	11	1
NEC-20M20B	NEC-20M20G	20	M20x1.5	14.5	45	58	30	30	18	11	1
NEC-25M25B	NEC-25M25G	25	M25x1.5	18.5	53	66	36	37	23	12	1
NEC-32M32B	NEC-32M32G	32	M32x1.5	25.5	66	76	45	46	27	15	1
NEC-40M40B	NEC-40M40G	40	M40x1.5	32.0	79	89	54	55	33	19	1
NEC-50M50B	NEC-50M50G	50	M50x1.5	42.0	92	103	68	69	39	19	1

### Betaflex 3 T distributor connectors



T distributor connectors are designed to join three conduits of the same nominal diameter when small bending radiuses have to be avoided. They are notable for their high tensile strength and tightness. Self-extinguishing and shock-resistant.

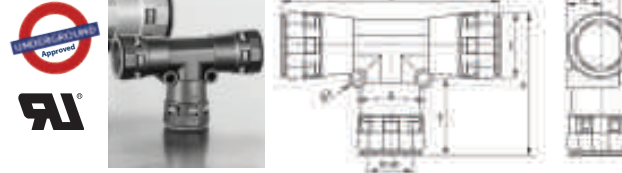
#### SPECIFICATIONS

**Material** Polyamide (PA 6) - Free of halogen, phosphorus and cadmium

**IP rating** IP 66 Protection. IP68 with ORJ O-Rings

**Service temperature rating** -40°C to +105°C

**Standards** EN 60204 (Safety of machinery)



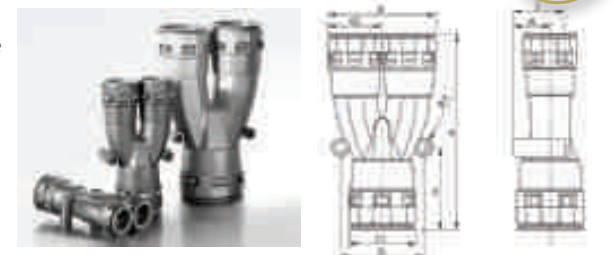
#### Betaflex 3 T distributor connectors

Part number black	Part number grey	Conduit size (mm)	Int. dia (mm)	Dimensions (mm)								Pack qty
				A	B	C	E	F	G	H	J	
TSD-121212B	TSD-121212G	12	11.2	46	72	20	27	5	19	10	18	1
TSD-161616B	TSD-161616G	16	12.8	52	81	23	30	5	20	12	20	1
TSD-202020B	TSD-202020G	20	18.0	63	96	29	35	6	28	14	25	1
TSD-252525B	TSD-252525G	25	25.5	76	117	37	40	6	36	18	30	1
TSD-323232B	TSD-323232G	32	31.5	85	128	45	41	6	41	22	36	1
TSD-404040B	TSD-404040G	40	38.5	97	144	53	46	7	50	26	44	1

### Betaflex 3 Y distributor connectors



Y distributor connectors are specially designed to join three conduits of a different nominal diameter when small bending radiuses have to be avoided. In accordance with EN 60204.



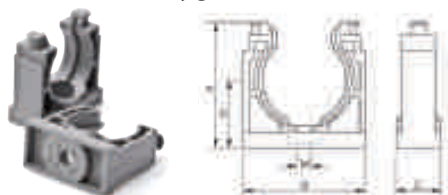
#### Betaflex 3 Y distributor connectors

Part number black	Part number grey	Conduit size (mm)	Dimensions (mm)								Pack qty	
			A	B	C1	C2	G	E	F	H		J
YKD-201616B	YKD-201616G	20+2x16	90	48	30	24	34	38	5	16	24	1
YKD-252020B	YKD-252020G	25+2x20	106	58	24	18	45	44	6	12	28	1
YKD-322525B	YKD-322525G	32+2x25	118	74	30	24	52	45	6	15	35	1
YKD-403232B	YKD-403232G	40+2x32	141	89	38	30	60	52	6	19	41	1
YKD-504040B	YKD-504040G	50+2x40	153	106	49	38	76	54	7	25	50	1



## Betaflex 3 SDN supports

SDN supports are ideal for securing sections of corrugated conduits between the various parts of the electrical installation on machines. With conduit entry guide.



### SPECIFICATIONS

**Material** Polyamide (PA 6) - Free of halogen, phosphorus and cadmium.

**IP rating** IP 66 Protection

**Service temperature rating** -40°C to +105°C

**Standards** EN 60204 (Safety of machinery)

### Betaflex 3 SDN supports

Part number black	Part number grey	Conduit size (mm)	Dimensions (mm)					M (Bolt)	Pack qty
			A	B	C	H			
SDN-12B	SDN-12G	12	23	21	20	14	M5	1	
SDN-16B	SDN-16G	16	26	25	20	15	M5	1	
SDN-20B	SDN-20G	20	32	32	20	18	M5	1	
SDN-25B	SDN-25G	25	41	40	20	23	M6	1	
SDN-32B	SDN-32G	32	47	46	20	26	M6	1	
SDN-40B	SDN-40G	40	57	56	20	32	M6	1	
SDN-50B	SDN-50G	50	70	70	20	39	M6	1	

## Betaflex 3 SWL supports

SWL supports have an integrated lid for securing sections of corrugated conduits between various parts of the electrical installation on machines. Ideal for securing conduit in situations e.g. on ceilings.



### Betaflex 3 SWL supports

Part number black	Part number grey	Conduit size (mm)	Dimensions (mm)					M (Bolt)	Pack quantity
			A	B	C	H			
SWL-12B	SWL-12G	12	22	17	20	13	M5	1	
SWL-16B	SWL-16G	16	25	22	20	13	M5	1	
SWL-20B	SWL-20G	20	27	25	20	15	M5	1	
SWL-25B	SWL-25G	25	33	31	20	19	M5	1	
SWL-32B	SWL-32G	32	42	40	20	23	M6	1	
SWL-40B	SWL-40G	40	47	46	20	26	M6	1	
SWL-50B	SWL-50G	50	56	56	20	31	M6	1	

## Betaflex 3 threaded coupler

Threaded couplers for linking two conduit lengths while threading the connectors in each side. Made of rigid thermoplastic, they are specifically designed for longer installations than those possible using only one standard roll length.



### SPECIFICATIONS

**Material** Rigid thermoplastic

**Service temperature rating** -5°C to +70°C

**Colour** Black

### Betaflex 3 threaded coupler

Part number	For thread size	Dimension A (mm)	External dia. (mm)	Pack quantity
COUPLER M16	M16x1.5	30.80	19.70	1
COUPLER M20	M20x1.5	33.65	23.85	1
COUPLER M25	M25x1.5	39.60	29.80	1
COUPLER M32	M32x1.5	44.50	36.90	1
COUPLER M40	M40x1.5	50.00	46.90	1
COUPLER M50	M50x1.5	54.70	56.80	1
COUPLER M63	M63x1.5	60.30	70.60	1

## Betaflex 3 O-Rings

O-Rings can be placed on the first groove at the end of Betaflex 3 corrugated conduit in order to obtain a degree of protection up to IP68 between the conduit and connector.



### Betaflex 3 O-Rings

Part number	Size (mm)	Pack quantity
ORJ-12	12	1
ORJ-16	16	1
ORJ-20	20	1
ORJ-25	25	1
ORJ-32	32	1
ORJ-40	40	1
ORJ-50	50	1



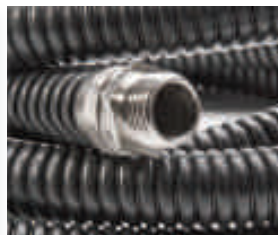
## Betaflex 4 galvanised steel conduit & accessories

### Betaflex 4 galvanised steel conduit with PVC coating

This flexible, galvanised steel conduit with a PVC cover has good mechanical stability and flexibility. Ideal for applications in machine tooling and connections for general factory wiring where light mechanical stress may occur.

#### SPECIFICATIONS

**Material** Galvanised steel & PVC coating  
**IP rating** IP 67  
**Service temperature rating** -20°C to +80°C  
**Crush resistance** To 1500N  
**Standards** EN 500086 - DIN 53210



#### Betaflex 4 galvanised steel conduit with PVC coating

Part number	Conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Length options	
				Reel length (m)	Reel length (m)
GSP20 (LENGTH)	20	21	17	10	30
GSP25 (LENGTH)	25	27	22	10	30
GSP32 (LENGTH)	32	34	28.1	10	30
GSP50 (LENGTH)	50	55	48	10	30
GSP63 (LENGTH)	63	65	57	10	30
GSP75 (LENGTH)	75	77	70	10	30
GSP100 (LENGTH)	100	102	93	10	30

### Betaflex 4 galvanised steel conduit

Betaflex 4 flexible galvanised steel conduit has good mechanical stability and flexibility. Ideal for applications such as under floor wiring in public buildings like offices, factories etc.

#### SPECIFICATIONS

**Material** Galvanised steel. Low fire hazard  
**IP rating** IP 40  
**Service temperature rating** -50°C to +300°C  
**Crush resistance** To 1500N  
**Standards** EN 500086 - DIN 53210, LUL approved: Certificate no. 1506.



#### Betaflex 4 galvanised steel conduit

Part number	Conduit size (mm)	Outside diameter (mm)	Inside diameter (mm)	Length options	
				Reel length (m)	Reel length (m)
GS20 (LENGTH)	20	21	17	10	30
GS25 (LENGTH)	25	27	22	10	30
GS32 (LENGTH)	32	32	28.1	10	30
GS50 (LENGTH)	50	55	48	10	30
GS63 (LENGTH)	63	63	57	10	30
GS75 (LENGTH)	75	75	70	10	30
GS100 (LENGTH)	100	100	93	10	30

### Betaflex 4 fixed glands

Betaflex 4 fixed glands are a one-piece fixed adaptor with metric thread, which provides easy installation.

#### SPECIFICATIONS

**Material** Nickel plated brass  
**IP rating** IP 40  
**Service temperature rating** -100°C to +300°C  
**Standards** LUL approved



#### Betaflex 4 fixed glands

Part number	Size (mm)	Pack quantity
GSP20SG	20	1
GSP25SG	25	1
GSP32SG	32	1
GSP50SG	50	1
GSP63SG	63	1
GSP75SG	75	1



### Betaflex 4 swivel glands

Betaflex 4 swivel glands are a two-piece fitting with metric thread, which saves installation time and locks securely into the conduit whilst allowing the body and thread to swivel.

#### SPECIFICATIONS

**Material** Nickel plated brass  
**IP rating** IP 40  
**Service temperature rating** -100°C to +300°C  
**Standards** LUL approved



#### Betaflex 4 swivel glands

Part number	Size (mm)	Pack quantity
GS12SWG	12	1
GS16SWG	16	1
GS20SWG	20	1
GS25SWG	25	1
GS32SWG	32	1
GS50SWG	50	1
GS63SWG	63	1
GS75SWG	75	1



### Betaflex 4 P-Clips

Ideal for securing sections of corrugated conduits between various parts of the electrical installation on machines. Provides good resistance to atmospheric agents and corrosion. Free of halogen, phosphorus and cadmium.

#### SPECIFICATIONS

**Material** Galvanised steel with elastomer liner



#### Betaflex 4 P-Clips

Part number	Colour	Conduit size (mm)	Pack quantity
PC 12	Black	12	1
PC 16	Black	16	1
PC 20	Black	20	1
PC 25	Black	25	1
PC 32	Black	32	1
PC 40	Black	40	1
PC 50	Black	50	1

