

# PMA JUMBO sizes

## General technical details

Larger sizes for big solutions. When you need conduit with larger sizes for your cable protection, we provide you with a comprehensive selection of large size conduit including connectors and flanges.

The PMA JUMBO product line includes a range of large size cable protection products. Seven different conduit types using a variety of raw materials to provide optimal performance in various applications and compatible fittings.

- PMA JUMBO conduit polyamide and polyurethane conduit in the large nominal width sizes NW56, 70, 95, 125  
(PA6 conduit – PCL, CYL, VCS, VOH)  
(PA12 conduit – PIS, PCS)  
(PU conduit – PUE)
- PMAGRIP flange and threaded fittings plus accessories BGG (straight), BGO (90°) flange fittings achieve a sealing rating of IP50 and IP65 with a conduit sealing ring BGGV (straight), BGOV (90°) flange fittings achieve a sealing rating of IP68

### Material

- Conduit made from specially formulated PA6, PA12 and PU
- Fittings made from specially formulated polyamide 6
- Self-extinguishing
- Free from halogens, REACH + RoHS compliant\*
- Very good chemical properties
- Temperature range:  
PA6 –40°C to +105°C, short-term to +160°C  
PA12 –40°C to +95°C, short-term to +150°C  
PU –60°C to +50°C

### Characteristics

- Excellent conduit pull-out strength
- High impact resistance
- All PMA Jumbo conduit have a coarse (G) profile
- The conduit types PIS and VCS are UL recognized in jumbo sizes for use with the flange type fittings.

\* All conduit are REACH and RoHS compliant












# Conduit, large sizes

## Type PMAFLEX JUMBO conduit

### Type PMAFLEX JUMBO conduit

	Order no. black	Order no. grey	Conduit size		Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU meter
			NW	Metric				
PMAFLEX JUMBO conduit	PCLG-56B	PCLG-56S	56	68	56.3	67.2	130/-	30
	PCLG-70B	PCLG-70S	70	80	67.5	80.0	160/-	10
	PCLG-95B	PCLG-95S	95	106	91.5	106.0	210/-	10
	PCLG-125B	PCLG-125S	125	146	126.5	146.5	450/-	6
	PIHG-56B	PIHG-56S	56	68	56.3	67.2	110/270	30
	PIHG-70B	PIHG-70S	70	80	67.2	79.6	150/350	30
	PIHG-95B	PIHG-95S	95	106	91.3	106.0	170/450	30
	PIHG-125B	PIHG-125S	125	146	126.5	146.5	350/480	20
	VCSG-56B	VCSG-56S	56	68	56.1	67.2	150/-	30
	VCSG-70B	VCSG-70S	70	80	66.5	80.0	200/-	10
	VCSG-95B	VCSG-95S	95	106	91.0	106.0	300/-	10
	LLPAG-56B	LLPAG-56S	56	68	56.3	67.2	120/-	30
	LLPAG-70B	LLPAG-70S	70	80	68.0	80.0	160/-	10
	LLPAG-95B	LLPAG-95S	95	106	91.9	106.0	210/-	10
	LLPAG-125B	LLPAG-125S	125	146	126.5	146.5	450/-	6
	VOHG-56B	VOHG-56S	56	68	55.5	67.2	135/-	10
	VOHG-70B	VOHG-70S	70	80	67.0	80.0	200/-	10
	VOHG-95B	VOHG-95S	95	106	90.5	106.0	300/-	10
	VOHG-125B	VOHG-125S	125	146	126.0	146.5	480/-	6
	PCSG-56B	PCSG-56S	56	68	56.1	67.2	130/280	30
	PCSG-70B	PCSG-70S	70	80	66.5	80.0	170/360	10
	PCSG-95B	PCSG-95S	95	106	91.0	106	250/470	10
	PUEG-56B	-	56	68	56.3	67.2	90/170	30
	PUEG-70B	-	70	80	68.2	80.5	100/220	30

**Approvals**



For further conduit and other sizes see conduit guide

## PMAGRIP flange connectors

### Type GG & GO

#### Type GG - Flange straight

	Order no. black	Order no. grey	Fits to conduit size		Width (mm)	Height (mm)	Depth (mm)
			NW	Metric			
GG	BGG-56	SGG-56	56	68	82.0	97.0	42.0
	BGG-70	SGG-70	70	80	97.0	114.0	48.0
	BGG-95	SGG-95	95	106	126.0	146.0	53.0
	BGG-125	SGG-125	125	146	-	194.0	79.0



#### Approvals



Ingress protection: IP50 without conduit seal ring (IP65 with conduit seal ring)  
 Flange seal FGO4 made from EPDM, standard for indoor and outdoor applications  
 Flange seal FGO4/01 made from NBR, optional for indoor applications with special chemical requirements  
 Temperature range with FGO4: -40°C to +105°C  
 Temperature range with FGO4/01: -25°C to +70°C  
 Content of delivery: Flange part, fixation clamps (incl. 2 screws), flange seal (FGO4 or FGO4/01), conduit seal ring (optional for IP65)

#### Type GO - Flange 90° elbow

	Order no. black	Order no. grey	Fits to conduit size		Width (mm)	Height (mm)	Depth (mm)
			NW	Metric			
GO	BGO-56	SGO-56	56	68	82.0	97.0	101.0
	BGO-70	SGO-70	70	80	97.0	114.0	115.0
	BGO-95	SGO-95	95	106	126.0	146.0	149.0



#### Approvals



Ingress protection: IP50 without conduit seal ring (IP65 with conduit seal ring)  
 Flange seal FGO4 made from EPDM, standard for indoor and outdoor applications  
 Flange seal FGO4/01 made from NBR, optional for indoor applications with special chemical requirements  
 Temperature range with FGO4: -40°C to +105°C  
 Temperature range with FGO4/01: -25°C to +70°C  
 Content of delivery: Flange part, fixation clamps (incl. 2 screws), flange seal (FGO4 or FGO4/01), conduit seal ring (optional for IP65)

## PMAGRIP flange connectors

### Type GGV & GOV

#### Type GGV - Flange straight

	Order no. black, IP68	Fits to conduit size		Width (mm)	Height (mm)	Depth (mm)
		NW	Metric			
GGV	BGGV-56	56	68	82.0	97.0	42.0
	BGGV-70	70	80	97.0	114.0	48.0
	BGGV-95	95	106	126.0	146.0	53.0



#### Approvals



In railway vehicle construction as well as in a wide range of industrial applications with high sealing and safety requirements  
 Flange seal FGO4 made from EPDM, standard for indoor and outdoor applications  
 Flange seal FGO4/01 made from NBR on request, optional for indoor applications with special chemical requirements  
 Ingress protection: IP68, IP69 with conduit sealing NVN3  
 Temperature range with FG04: -40°C to +105°C  
 Temperature range with FG04/01: -25°C to +70°C  
 If the application temperature is above 70°C we recommend to use an additional internal conduit support sleeve (BES)  
 Content of delivery: Flange part, fixation clamps (incl. 2 screws), conduit seal (NVN3), flange seal (FGO4 or FGO4/01)

#### Type GOV - Flange 90° elbow

	Order no. black, IP68	Fits to conduit size		Width (mm)	Height (mm)	Depth (mm)
		NW	Metric			
GOV	BGOV-56	56	68	82.0	97.0	101.0
	BGOV-70	70	80	97.0	114.0	115.0
	BGOV-95	95	106	126.0	146.0	149.0



#### Approvals



In railway vehicle construction as well as in a wide range of industrial applications with high sealing and safety requirements  
 Flange seal FGO4 made from EPDM, standard for indoor and outdoor applications  
 Flange seal FGO4/01 made from NBR on request, optional for indoor applications with special chemical requirements  
 Ingress protection: IP68, IP69 with conduit sealing NVN3  
 Temperature range with FG04: -40°C to +105°C  
 Temperature range with FG04/01: -25°C to +70°C  
 If the application temperature is above 70°C we rec. to use an additional internal conduit support sleeve (BES)  
 Content of delivery: Flange part, fixation clamps (incl. 2 screws), conduit seal (NVN3), flange seal (FGO4 or FGO4/01)

## PMAGRIP threaded connectors

### Type GG & GI

#### Type GG - Connector straight with locking clamps, metric/PG thread

	Order no. black	Order no. grey	Thread	Fits to conduit size		Thread length (mm)	Outside Ø (mm)	Overall length (mm)
				NW	Metric			
GG	BGG-M6356	SGG-M6356	M63 x 1.5	56	68	18.0	98.0	57.5
	BGG-P3656	SGG-P3656	PG 36	56	68	18.0	98.0	57.3



Ingress protection: IP50 without conduit seal ring (IP65 with conduit seal ring)  
 Content of delivery: Threaded part, fixation clamps (incl. 2 screws), conduit seal ring (optional for IP65)

#### Type GI - Connector straight with locking clamps, metric female thread

	Order no. black	Order no. grey	Thread	Fits to conduit size		Thread length (mm)	Outside Ø (mm)	Overall length (mm)
				NW	Metric			
GI	BGI-M7556	SBI-M7556	M75 x 1.5	56	68	15.0	98.0	53.3




Ingress protection: IP50 without conduit seal ring (IP65 with conduit seal ring)  
 Content of delivery: Threaded part, fixation clamps (incl. 2 screws), conduit seal ring (optional for IP65)

## Tube clamps, conduit seal rings, large size accessories


### Type GH & SGS

#### Type GH - Tube clamp, one-piece

	Order no. black	Order no. grey	Fits to conduit size		Width (mm)	Fixing screw
			NW	Metric		
GH 	BGH-56	SGH-56	56	68	26.0	2 x M8
	BGH-70	SGH-70	70	80	30.0	2 x M8
	BGH-95	SGH-95	95	106	30.0	2 x M8

For general machine and installation applications  
 Integrated rib provides axial strain relief  
 Allows turning of the conduit thus avoiding torsion stresses  
 Pre-fixation on the conduit possible  
 Allows solid fixation with 2 screws  
 For other sizes of BGH tube clamps please see page 6/14  
 PA 6

#### Type SGS - Tube clamp


	Order no.	Fits to conduit size		Width x Height x Depth (mm)	Fixing screw
		NW	Metric		
SGS 	SGS-36	36	40	80.0 x 48.0 x 19.0	2 x M6
	SGS-48	48	50	94.0 x 58.0 x 19.0	2 x M6
	SGS-56	56	68	118.0 x 72.0 x 24.0	2 x M8
	SGS-70	70	80	130.0 x 85.0 x 24.0	2 x M8
	SGS-95	95	106	156.0 x 110.0 x 24.0	2 x M8
	SGS-125	125	146	200.0 x 152.0 x 24.0	2 x M8

For fixation of static conduit  
 Galvanized steel  
 Elastomer profile (EPDM) free from halogens  
 Smooth connection to PMA conduit  
 Good resistance to ozone and ageing  
 Temperature range: -40°C to +120°C

## Tube clamps, conduit seal rings, large size accessories

### Type SGO3

#### Type SGO3 - Conduit seal ring

	Order no.	Fits to conduit size		Inside Ø (mm)	Outside Ø (mm)	Thickness (mm)
		NW	Metric			
	SGO3-56	56	68	49.5	61.0	1.5
	SGO3-70	70	80	61.5	74.0	1.5
	SGO3-95	95	106	86.0	102.0	1.5
	SGO3-125	125	146	122.0	142.0	2.0

Used at the conduit end for sealing between the PMAGRIP flanges GG/GO/GI and PMA JUMBO conduit

Nitrile rubber NBR

Temperature range: -40°C to +105°C