

Accessories

Introduction

For flexible and application friendly solutions. PMA offers a vast array of practical accessories in order to complete the PMA cable protection system.

We offer lock nuts produced from polyamide or metal, thread reducers and enlargers, conduit adapters, swivel adapters as well as different mounting clips for conduits. All these practical products will help to create the PMA line for our customers even more flexible and application friendly.



Conduit terminations

Type RKS & CT

Type RKS - Conduit terminal sleeve

	Order no. black	Fits to conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Length (mm)	PU (pcs)
	RKS-07	07	4.5	12.5	16.0	100
	RKS-10	10	8.0	15.5	16.0	100
	RKS-12	12	10.0	19.0	20.0	100
	RKS-17	17	13.0	24.0	21.0	100
	RKS-23	23	20.0	32.0	22.0	50
	RKS-29	29	25.0	38.0	22.0	30
	RKS-36	36	33.0	46.0	25.0	20
	RKS-48	48	45.0	58.0	25.0	10
	RKS-56	56	54.0	71.0	28.0	10

For clean conduit end termination where no fitting is required
PA 6

Type BCT - Conduit termination

	Order no. black	Fits to conduit size NW	Clamping range (mm)	Length (mm)	Height (mm)	PU (pcs)
	BCT-10	10	4–8	28.0	13.0	10
	BCT-12	12	5–9	35.0	16.0	10
	BCT-17	17	7–14	42.0	21.0	10
	BCT-23	23	14–22	51.0	28.0	10
	BCT-29	29	16–22	53.0	34.0	10
	BCT-36	36	16–29	55.0	42.0	10

For sealing of cables and wires at the exit from PMA corrugated conduits
Avoids ingress of dirt and liquids
Can be fixed additionally with cable ties
Neoprene rubber
Temperature range: -30°C to +120°C

Abrasion protection, support sleeves

Type SS/SV, BES & BAS

Type SS/SV - Abrasion protection sleeve

	Order no. black	Fits to conduit size NW	Outside Ø (mm)	Length (mm)	PU (pcs)
	BSS-17	17	42.0	22.0	50
	BSS-23	23	49.0	26.0	30
	BSS-29	29	55.0	26.0	20
	BSS-36	36	63.0	30.0	20
	BSS-48	48	75.0	30.0	10
	BSS-56G	56	90.0	33.0	10
	BSV-70G	70	108.0	60.0	10

Abrasion protection for corrugated conduits in positions exposed to chafing
Increases the life time of moving conduits
PA 6

Type BES - Conduit terminal support sleeve

	Order no. black	Fits to conduit size NW	Outer diameter x height (mm)	PU (pcs)
	BES-48G	48	51 x 18	10
	BES-70G	70	80 x 23	10

Mostly used in automation applications
Compatible with XR90, XTPC, PIS/PIH and PUE conduit
Increases the maximum system pull-out strength
Fits coarse profile (G-profile)

Type BAS - Conduit support sleeve

	Order no. black	Fits to conduit size NW	Outer diameter x height (mm)	PU (pcs)
	BAS-29T	29	30 x 34	20
	BAS-36T	36	38 x 47	20
	BAS-48T	48	50 x 47	10

For PMA conduit PUET in connection with PMA connecting parts
Increases the maximum system pull-out strength
Protects cables and wires against damage due to sharp edges where no fittings are installed
Material: High-grade, specially formulated polyamide 6

Tools

Type PMACUT & EWZ

Type PMACUT - Cutting tool for conduits, NW 07–48

	Order no. Cutting tool	Order no. Spare blade	For conduit size NW	Cutting range	PU (pcs)
PMACUT	PMACUT-38	FP-38	07–29	0–38	1
	PMACUT-52	FP-52	23–48	0–52	1



Can be used to cut all PMA conduits
Enables a precise and straight cut around the corrugation
Metal
Colour: Red

Type PMACUT - Cutting tool for conduits, NW 56–125

	Order no. black	Fits to conduit size NW	Length x Width x Depth (mm)	PU (pcs)
PMACUT	PMACUT-NW56	56	337 x 101 x 15	1
	PMACUT-NW70	70	350 x 110 x 15	1
	PMACUT-NW95	95	400 x 142 x 20	1
	PMACUT-NW125	125	443 x 182 x 20	1



Can be used to cut all PMA conduits with large nominal widths
Enables a precise and straight cut at the top of the corrugation
High level of safety through retractable blade
Aluminium

Type EWZ - Draw-in tool

	Order no. black with hole	Order no. black with handle	Fits to conduit size NW	Width x Length x Depth (mm)	PU (pcs)
EWZ	EWZ-02	EWZ-03	7.5–34	117.7 x 45.2 x 71.9	100/50

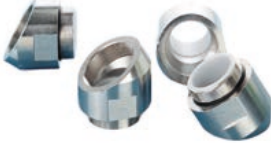


Suitable for drawing in cables or wires into PMA Divisible System conduits or other slit conduits
Designed in a handy shape and equipped with a practical hand grip for wedging or with hole for direct holding of the wires
Polyamide 6.6
Colour: black

Elbow adapters, metal swivel adapter, metric, PG

Type MAVI, MAVIK & SWA/01

Type MAVI - Special 45° elbow adapter, metric thread

	Order no.	Thread metric		Thread length outside (mm)	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		Inside	Outside				
	MAVI-M20/01	M20 x 1.5	M20 x 1.5	10.0	35.0	45.0	10
	MAVI-M25/01	M25 x 1.5	M25 x 1.5	11.0	39.0	51.0	10
	MAVI-M32/01	M32 x 1.5	M32 x 1.5	13.0	46.0	54.0	10
	MAVI-M40/01	M40 x 1.5	M40 x 1.5	13.0	55.0	62.0	10
	MAVI-M50/01	M50 x 1.5	M50 x 1.5	14.0	65.0	75.0	10
	MAVI-M63/01	M63 x 1.5	M63 x 1.5	14.0	80.0	84.0	10

Where a certain cable outlet angle is required

In connection with PMA fittings, especially fittings with strain relief VNZ

Enables different mounting positions: With a lock nut behind a clearance hole / In threaded holes (lock nut on MAVI side for positioning) / With SCA spin-coupler

Nickel-plated aluminium (other materials e.g. stainless steel or nickel-plated brass available on request)

High thread and system connection strength

IP68 static/IP67 dynamic

Temperature range: -60°C to +105°C

Type MAVIK - Positioning 45° elbow adapter, metric thread

	Order no.	Thread metric		Thread length outside (mm)	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		Inside	Outside				
	MAVIK-M20/01	M20 x 1.5	M20 x 1.5	10.0	35.0	52.0	10
	MAVIK-M25/01	M25 x 1.5	M25 x 1.5	11.0	39.0	58.0	10
	MAVIK-M32/01	M32 x 1.5	M32 x 1.5	13.0	46.0	61.0	10
	MAVIK-M40/01	M40 x 1.5	M40 x 1.5	13.0	55.0	69.5	10
	MAVIK-M50/01	M50 x 1.5	M50 x 1.5	14.0	65.0	83.0	10
	MAVIK-M63/01	M63 x 1.5	M63 x 1.5	14.0	80.0	92.0	10

Where a certain cable outlet angle is required

In connection with PMA fittings, especially fittings with strain relief VNZ

The counter nut allows accurate positioning of the outlet direction in threaded holes

Adapter made from nickel-plated aluminium (other materials e.g. stainless steel or nickel-plated brass available on request), counter nut made from nickel-plated brass

High thread and system connection strength

IP68 static/IP67 dynamic

Temperature range: -60°C to +105°C

Type SWA/01 - Metal swivel adapter with ball bearing

	Order no.	Thread size		Outer diameter x height (mm)	PU (pcs)
		Metric	PG		
	SWA-M32-15/01	M32 x 1.5	M32 x 1.5	50 x 53.5	1
	SWA-M40-13/01	M40 x 1.5	M40 x 1.5	60 x 51.5	1
	SWA-M50-14/01	M50 x 1.5	M50 x 1.55	73 x 54.5	1
	SWA-P21/01	PG21	PG21	19 x 50	1

Used in connection with PMA fittings with metal thread

Allows PMA fittings to swivel freely in applications where high movement necessary

With thread edge protection

Swivel and positioning adapters, metric, PG

Type SWA & SCA

Type SWA - Swivel adapter with special sealing, metric/PG metal thread

	Order no.	Thread metric		Thread length (mm)	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		Inside	Outside				
	SWA-M16-10	M16 x 1.5	M16 x 1.5	10.0	23.0	37.5	1
	SWA-M20-10	M20 x 1.5	M20 x 1.5	10.0	27.0	38.5	1
	SWA-M25-11	M25 x 1.5	M25 x 1.5	11.0	32.0	41.0	1
	SWA-M32-13	M32 x 1.5	M32 x 1.5	13.0	45.0	46.5	1
	SWA-M40-13	M40 x 1.5	M40 x 1.5	13.0	55.0	47.5	1
	SWA-M50-14	M50 x 1.5	M50 x 1.5	14.0	59.0	49.5	1
	SWA-M63-14	M63 x 1.5	M63 x 1.5	14.0	75.0	52.0	1
	Order no.	Thread PG		Thread length (mm)	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		Inside	Outside				
	SWA-P09	09	09	15.0	23.0	44.5	1
	SWA-P11	11	11	15.0	27.0	45.5	1
	SWA-P16	16	16	15.0	32.0	48.0	1
	SWA-P21	21	21	15.0	40.0	51.0	1
	SWA-P29	29	29	15.0	50.0	52.0	1
	SWA-P36	36	36	15.0	59.0	55.0	1
	SWA-P48	48	48	15.0	70.0	55.0	1

Allow PMA fittings to swivel freely in applications where such movement is occasionally necessary

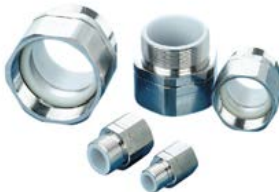
In connection with PMA fittings with metal thread

Nickel-plated brass with thread edge protection

IP68 and IP69

Temperature range: -40°C to +105°C

Type SCA - Positioning adapter, metric/PG metal thread

	Order no.	Thread metric		Thread length (mm)	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		Inside	Outside				
	SCA-M16-10	M16 x 1.5	M16 x 1.5	10.0	22.0	32.0	1
	SCA-M20-10	M20 x 1.5	M20 x 1.5	10.0	26.0	33.0	1
	SCA-M25-11	M25 x 1.5	M25 x 1.5	11.0	32.0	35.0	1
	SCA-M32-13	M32 x 1.5	M32 x 1.5	13.0	39.0	39.5	1
	SCA-M40-13	M40 x 1.5	M40 x 1.5	13.0	50.0	41.0	1
	SCA-M50-14	M50 x 1.5	M50 x 1.5	14.0	59.0	43.5	1
	SCA-M63-14	M63 x 1.5	M63 x 1.5	14.0	75.0	45.5	1
	Order no.	Thread metric		Thread length (mm)	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		Inside	Outside				
	SCA-P09	09	09	12.0	22.0	35.0	1
	SCA-P11	11	11	12.0	26.0	36.0	1
	SCA-P16	16	16	13.0	29.0	38.0	1
	SCA-P21	21	21	14.0	39.0	41.0	1
	SCA-P29	29	29	14.0	44.0	42.5	1
	SCA-P36	36	36	17.0	59.0	49.0	1
	SCA-P48	48	48	17.0	69.0	50.5	1

Allows easy positioning of elbow fittings with metal thread

In connection with PMA fittings with metal thread (Metric: Metal long thread)

Nickel-plated brass

High fastening torque with thread edge protection

P68 and IP69

Temperature range: -40°C to +105°C

Flat gaskets, metric, PG, NPT, GAS

Type SVN4

Type SVN4 - Flat thread gasket, metric/NPT/PG/GAS

	Order no.	Fits to thread metric	Inside Ø (mm)	Outside Ø (mm)	Thickness (mm)	PU (pcs)
	SVN4-M12.50	M12 x 1.5	12.0	20.0	1.5	50
	SVN4-M12/02.50	M12 x 1.5	12.0	23.0	1.5	50
	SVN4-M16.50	M16 x 1.5	16.0	22.0	1.5	50
	SVN4-M16/02.50	M16 x 1.5	16.0	25.0	1.5	50
	SVN4-M20.50	M20 x 1.5	20.0	27.0	1.5	50
	SVN4-M20/02.50	M20 x 1.5	20.0	33.0	1.5	50
	SVN4-M25.30	M25 x 1.5	25.0	35.0	1.5	30
	SVN4-M25/01.30	M25 x 1.5	25.0	31.0	1.5	30
	SVN4-M25/02.30	M25 x 1.5	25.0	39.0	1.5	30
	SVN4-M32.20	M32 x 1.5	32.0	43.0	1.5	20
	SVN4-M32/02.20	M32 x 1.5	32.0	49.0	1.5	20
	SVN4-M40.20	M40 x 1.5	40.0	55.0	1.5	20
	SVN4-M40/01.20	M40 x 1.5	40.0	51.0	1.5	20
	SVN4-M40/02.20	M40 x 1.5	40.0	64.0	1.5	20
	SVN4-M50.10	M50 x 1.5	50.0	69.0	1.5	10
	SVN4-M50/01.10	M50 x 1.5	50.0	59.0	1.5	10
	SVN4-M50/02.10	M50 x 1.5	50.0	74.0	1.5	10
	SVN4-M63.10	M63 x 1.5	63.0	75.0	1.5	10

Order no.	Fits to thread PG	Inside Ø (mm)	Outside Ø (mm)	Thickness (mm)	PU (pcs)
SVN4-07.50	07	12.5	16.5	1.5	50
SVN4-09.50	07	15.2	20.0	1.5	50
SVN4-11.50	11	18.6	24.0	1.5	50
SVN4-13.50	13.5	20.4	31.0	1.5	50
SVN4-16.50	16	22.5	31.0	1.5	50
SVN4-21.30	21	28.3	37.0	1.5	30
SVN4-29.30	29	37.0	48.0	1.5	20
SVN4-36.20	36	47.0	57.0	1.5	20
SVN4-42.10	42	54.0	60.0	1.5	10
SVN4-48.10	48	59.3	69.0	1.5	10

Order no.	Fits to thread NPT	Inside Ø (mm)	Outside Ø (mm)	Thickness (mm)	PU (pcs)
SVN4-N02/01.50	½"	21.6	28.0	1.5	50
SVN4-N04/01.30	¾"	27.0	36.0	1.5	30
SVN4-N06/01.20	1"	33.7	46.0	1.5	20
SVN4-N07/01.20	1¼"	42.5	55.0	1.5	20
SVN4-N08/01.10	1½"	48.6	70.0	1.5	10
SVN4-N09/01.10	2"	60.7	70.0	1.5	10

Order no.	Fits to thread GAS	Inside Ø (mm)	Outside Ø (mm)	Thickness (mm)	PU (pcs)
SVN4-G00.50	¼"	13.2	20.0	1.5	50
SVN4-G01.50	⅜"	16.7	22.0	1.5	50
SVN4-G02.50	½"	21.0	28.0	1.5	50
SVN4-G04.30	¾"	26.5	34.0	1.5	30
SVN4-G06.20	1"	33.3	42.0	1.5	20
SVN4-G07.20	1¼"	41.9	53.0	1.5	10
SVN4-G08.10	1½"	47.8	62.0	1.5	20
SVN4-G09.10	2"	59.6	69.0	1.5	10

For sealing of polyamide or metal threads of PMA fittings. For ingress protection at the thread up to IP68

For solid sealing of uneven rough contact areas around the thread hole or when no constructive measures for O-Rings are provided

NBR reinforced with aramide fibres (asbestos-free). Temperature range: -50°C to +200°C, short-term to +350°C

Note: Depending on flange sizes flat thread gaskets can have different widths. Please indicate fitting for which gasket is needed for replacement orders

Locking clips, water impact protection

Type AFN2, OVN2 & WPS

Type AFN2 - Universal safety clip for PMAFix fittings IP66

	Order no. dark grey	Fits to conduit size NW	Width (mm)	Length (mm)	Thickness (mm)	PU (pcs)
	AFN2-07GT.Lose	07	14.0	14.0	7.0	1
	AFN2-10GT.Lose	10	17.5	17.0	8.0	1
	AFN2-12GT.Lose	12	20.5	20.0	7.3	1
	AFN2-17GT.Lose	17	26.5	22.0	8.0	1
	AFN2-23GT.Lose	23	34.0	27.5	11.8	1
	AFN2-29GT.Lose	29	40.5	32.0	11.8	1
	AFN2-36GT.Lose	36	50.0	39.0	9.5	1
	AFN2-48GT.Lose	48	62.0	47.0	9.5	1

Pre-installed in PMA fittings IP66 and IP68GT

Allows simple push-in assembly of PMA conduits

Type OVN2 - Oval clip for PMAFix fittings IP66

	Order no. dark grey	Fits to conduit size NW	Width (mm)	Length (mm)	Thickness (mm)	PU (pcs)
	OVN2-07.100	07	14.0	14.0	6.0	100
	OVN2-10.50	10	17.5	17.0	7.0	50
	OVN2-12.50	12	21.0	19.0	6.0	50
	OVN2-17.50	17	26.5	22.5	7.0	50
	OVN2-23.30	23	34.0	27.5	10.5	30
	OVN2-29.20	29	40.5	32.0	10.5	20
	OVN2-36.40	36	49.5	39.0	8.5	40
	OVN2-48.20	48	62.0	47.0	8.5	20

Provides reliable fixation of PMA conduits within PMA IP68 fittings

Type WPS - Water impact protection

	Order no. black	Fits to conduit size NW	Outside Ø (mm)	Thickness (mm)	PU (pcs)
	WPS-NW10	10	22.0	8.0	50
	WPS-NW12	12	26.0	8.0	50
	WPS-NW17	17	33.0	8.0	50
	WPS-NW23	23	40.0	9.0	30
	WPS-NW29	29	47.0	9.5	20
	WPS-NW36	36	59.0	10.0	20
	WPS-NW48	48	71.0	10.0	10

Increased protection of PMAFix fittings against water jet impact – increased protection up to IP69

For increased ingress protection requirements regarding high pressure/steam jet cleaning

Based on PMAFix IP68 system

Two-piece water impact protection with click cap

Retrofit installation possible

Sealing caps

Type NVN3 & KNH2

Type NVN3 - Sealing cap, reinforced

	Order no.	Fits to conduit size NW	Length (mm)	PU (pcs)
	NVN3-07.100	07	9.0	100
	NVN3-09.50	10	9.0	50
	NVN3-11.50	12	12.0	50
	NVN3-16.50	17	16.5	50
	NVN3-21.30	23	13.0	30
	NVN3-29.20	29	14.0	20
	NVN3-36.20	36	17.5	20
	NVN3-48.10	48	17.5	10

In connection with PMAFIX fittings ("V" series) and PMA corrugated conduits

For ingress protection IP68 static/IP67 dynamic

Specially modified polyester-elastomer

Free from halogens and cadmium

Fits both conduit profiles: fine (T) and coarse (G)

Temperature range: -40°C to +105°C

Type KNH2 - PMAFIX Pro sealing and locking element

	Order no.	Fits to conduit size NW	Outside Ø (mm)	Overall length (mm)	PU (pcs)
	KNH2-NW10.50	10	22.0	28.0	50
	KNH2-NW12.50	12	25.5	33.5	50
	KNH2-NW17.50	17	31.5	38.5	50
	KNH2-NW23.30	23	38.5	41.0	30
	KNH2-NW29.20	29	46.5	46.5	20
	KNH2-NW36.20	36	55.5	50.5	20
	KNH2-NW48.10	48	68.0	56.5	10

For use in connection with PMAFIX PRO fittings PMA corrugated conduits for ingress protection IP68 and IP69 static and dynamic

Specially modified PA6/Polyester-elastomer

Free from halogens and cadmium

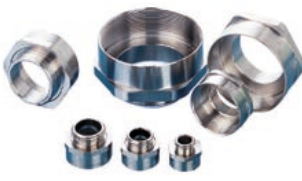
Fits conduit profiles: fine (T) and coarse (G)

Temperature range: -40°C to +105°C

Enlargers, reducers, metric and PG

Type ME, MR & NR

Type ME - Enlarger, brass, metric thread

	Order no.	Thread outside		Thread inside		Wrench size (mm)	Inside Ø (mm)	Overall length (mm)	PU (pcs)
		Metric	Length (mm)	Metric	Length (mm)				
	M12M16M	M12 x 1.5	5.0	M16 x 1.5	7.0	18	8.0	16.0	100
	M16M20M	M16 x 1.5	5.0	M20 x 1.5	7.5	22	12.0	16.5	100
	M20M25M	M20 x 1.5	6.0	M25 x 1.5	8.0	27	15.0	18.5	50
	M25M32M	M25 x 1.5	7.0	M32 x 1.5	9.0	34	21.0	20.5	25
	M32M40M	M32 x 1.5	8.0	M40 x 1.5	10	42	26.0	23.5	25
	M40M50M	M40 x 1.5	8.0	M50 x 1.5	13	52	34.0	30.0	10
	M50M63M	M50 x 1.5	9.0	M63 x 1.5	16	65	44.0	32.5	10

For enlargement of an existing thread
 Nickel-plated brass
 Hexagonal form
 Temperature range: -60°C to +200°C

Type MR - Reducer, brass, metric thread

	Order no. standard	PU (pcs)	Order no. hexagonal	PU (pcs)	Thread outside metric	Thread inside metric
	M16M12M	100	M16M12M/6	100	M16 x 1.5	M12 x 1.5
	M20M12M	100	M20M12M/6	100	M20 x 1.5	M12 x 1.5
	M20M16M	100	M20M16M/6	100	M20 x 1.5	M16 x 1.5
	M25M16M	100	M25M16M/6	100	M25 x 1.5	M16 x 1.5
	M25M20M	100	M25M20M/6	100	M25 x 1.5	M20 x 1.5
	M32M20M	50	M32M20M/6	50	M32 x 1.5	M20 x 1.5
	M32M25M	50	M32M25M/6	50	M32 x 1.5	M25 x 1.5
	M40M25M	50	M40M25M/6	25	M40 x 1.5	M25 x 1.5
	M40M32M	50	M40M32M/6	25	M40 x 1.5	M32 x 1.5
	M50M32M	25	M50M32M/6	10	M50 x 1.5	M32 x 1.5
	M50M40M	25	M50M40M/6	10	M50 x 1.5	M40 x 1.5
	M63M40M	10	M63M40M/6	10	M63 x 1.5	M40 x 1.5
	M63M50M	10	M63M50M/6	10	M63 x 1.5	M50 x 1.5

Reduction of threaded or clearance holes to smaller thread sizes
 Nickel-plated brass
 Temperature range: -60°C to +200°C
 Round form without O-ring, XXXX/6 hexagonal form with O-ring

Type NR - Reducer, PG

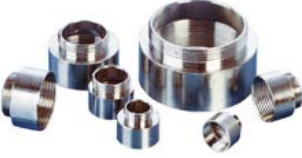
	Order no.	Thread outside PG	Thread inside PG	Length (mm)	Inside Ø (mm)	Outside Ø (mm)	PU (pcs)
	1109N	11	09	22.5	10.5	24.5	100
	1309N	13.5	09	15.0	10.0	26.0	100
	1311N	13.5	11	24.0	11.5	26.0	100
	1609N	16	09	16.0	10.0	29.0	100
	1611N	16	11	16.0	11.5	29.0	100
	1613N	16	13.5	27.0	13.5	29.0	100
	2113N	21	13.5	16.0	13.5	35.5	100
	2116N	21	16	16.0	15.5	35.5	100
	2921N	29	21	17.0	22.0	43.0	50
	3629N	36	29	24.0	30.5	54.0	50

Reduction of threaded or clearance holes to smaller PG thread sizes
 High-grade, glass fibre reinforced Polyamid 6
 Temperature range: -30°C to +100°C

Enlargers, reducers, PG

Type ME & MR

Type ME - Enlarger, brass, PG thread

	Order no. metal, standard	Thread outside		Thread inside		Outside Ø (mm)	Overall length (mm)	PU (pcs)
		PG	Length (mm)	PG	Length (mm)			
	0709M	07	5.0	09	7.0	17.0	15.0	100
	0911M	09	6.0	11	7.0	20.0	16.5	100
	0913M	09	6.0	13	7.5	22.0	17.5	100
	1113M	11	6.0	13	8.0	22.0	17.5	100
	1116M	11	6.5	16	8.5	24.0	19.0	100
	1121M	11	6.5	21	10.0	30.0	21.0	100
	1316M	13.5	6.5	16	7.5	24.0	19.0	100
	1321M	13.5	6.5	21	8.5	30.0	21.0	100
	1621M	16	6.5	21	8.5	30.0	21.0	100
	1629M	16	6.5	29	11.0	39.0	22.5	50
	2129M	21	7.0	29	11.5	39.0	23.0	50
	2936M	29	8.0	36	12.0	50.0	27.5	25
	4248M	42	10.0	48	17.0	64.0	33.0	10

For enlargement of an existing thread
Nickel-plated brass
Temperature range: -60°C to +200°C

Type MR - Reducer, brass, PG thread

	Order no. metal, standard	Thread outside		Thread inside PG	Outside Ø (mm)	Overall length (mm)	PU (pcs)
		PG	Length (mm)				
	0907M	09	6.0	07	17.0	8.5	100
	1107M	11	6.0	07	20.0	8.5	100
	1109M	11	6.0	09	20.0	8.5	100
	1307M	13.5	6.5	07	22.0	9.0	100
	1309M	13.5	6.5	09	22.0	9.0	100
	1311M	13.5	6.5	11	22.0	9.0	100
	1607M	16	6.5	07	24.0	9.5	100
	1609M	16	6.5	09	24.0	9.5	100
	1611M	16	6.5	11	24.0	9.5	100
	1613M	16	6.5	13.5	24.0	9.5	100
	2111M	21	7.0	11	30.0	10.0	100
	2113M	21	7.0	13.5	30.0	10.0	100
	2116M	21	7.0	16	30.0	10.0	100
	2916M	29	8.0	16	39.0	11.5	50
	2921M	29	8.0	21	39.0	11.5	50
	3621M	36	9.0	21	50.0	12.5	25
	3629M	36	9.0	29	50.0	12.5	25
	4229M	42	10	29	57.0	14.0	10
	4236M	42	10	36	57.0	14.0	10
	4836M	48	10	36	64.0	14.0	10
	4842M	48	10	42	64.0	14.0	10

Reduction of threaded or clearance holes to smaller thread sizes
Nickel-plated brass
Temperature range: -60°C to +200°C

Plug screws, metric, PG

Type 514

Type 514 - Plug screw, metric/PG thread

514		Order no. grey	Fits to thread metric	Outside Ø (mm)	Height (mm)	Thread length (mm)	PU (pcs)
		514-M12	M12 x 1.5	15.0	10.0	6.0	100
		514-M16	M16 x 1.5	20.0	10.5	6.0	100
		514-M20	M20 x 1.5	24.0	10.5	6.0	100
		514-M25	M25 x 1.5	30.0	13.0	8.0	100
		514-M32	M32 x 1.5	37.0	13.5	8.0	100
		514-M40	M40 x 1.5	46.0	14.0	8.0	50
		514-M50	M50 x 1.5	56.0	16.5	10.0	50
		514-M63	M63 x 1.5	70.0	17.0	12.0	50
		Order no. grey	Fits to thread PG	Outside Ø (mm)	Height (mm)	Thread length (mm)	PU (pcs)
		514-07	07	15.0	10.0	6.0	100
		514-09	09	19.0	10.0	6.0	100
		514-11	11	22.0	10.0	6.0	100
		514-13	13.5	25.0	10.0	6.0	100
		514-16	16	27.0	10.0	6.0	100
		514-21	21	33.0	12.5	8.0	100
		514-29	29	44.5	13.0	8.0	100
		514-36	36	55.5	15.0	10.0	50
		514-48	48	69.5	17.0	12.0	50

For closing off unused threaded holes
 Polyamide 6 glass fibre reinforced
 Free from halogens and cadmium
 IP54
 Temperature range: -30°C to +100°C

Lock nuts, metric, PG

Type MN

Type MN - Hexagonal lock nut, polyamide, metric/PG thread

	Order no. black	Order no. grey	Fits to thread metric	Wrench size (mm)	Height (mm)	PU (pcs)
	BMN-M12	GMN-M12	M12 x 1.5	17	5.0	100
	BMN-M16	GMN-M16	M16 x 1.5	22	5.0	100
	BMN-M20	GMN-M20	M20 x 1.5	26	5.6	100
	BMN-M25	GMN-M25	M25 x 1.5	32	6.0	100
	BMN-M32	GMN-M32	M32 x 1.5	41	7.0	25
	BMN-M40	GMN-M40	M40 x 1.5	50	7.0	10
	BMN-M50	GMN-M50	M50 x 1.5	60	8.0	10
	BMN-M63	GMN-M63	M63 x 1.5	75	8.0	5
	Order no. black	Order no. grey	Fits to thread PG	Wrench size (mm)	Height (mm)	PU (pcs)
	BMN-07	GMN-07	07	19	5.0	100
	BMN-09	GMN-09	09	22	5.0	100
	BMN-11	GMN-11	11	24	5.0	100
	BMN-13	GMN-13	13.5	27	6.0	100
	BMN-16	GMN-16	16	30	6.0	100
	BMN-21	GMN-21	21	36	7.0	50
	BMN-29	GMN-29	29	46	7.0	25
	BMN-36	GMN-36	36	60	8.0	10
	BMN-48	GMN-48	48	70	8.0	10

Glass fibre reinforced Polyamid 6
High tightening torques

Lock nuts, metric, PG

Type MM

Type MM - Hexagonal lock nut, brass, metric/PG thread

	Order no.	Fits to thread metric	Wrench size (mm)	Height (mm)	PU (pcs)
	GMM-M12	M12 x 1.5	15	2.8	100
	GMM-M16	M16 x 1.5	19	2.8	100
	GMM-M20	M20 x 1.5	24	3.0	100
	GMM-M25	M25 x 1.5	30	3.5	100
	GMM-M32	M32 x 1.5	36	4.0	25
	GMM-M40	M40 x 1.5	46	4.5	10
	GMM-M50	M50 x 1.5	60	5.0	5
	GMM-M63	M63 x 1.5	70	5.5	5
	Order no.	Fits to thread PG	Wrench size (mm)	Height (mm)	PU (pcs)
	GMM-07	07	15	2.8	100
	GMM-09	09	18	2.8	100
	GMM-11	11	21	3.0	100
	GMM-13	13.5	23	3.0	100
	GMM-16	16	26	3.0	50
	GMM-21	21	32	3.5	50
	GMM-29	29	41	4.0	25
	GMM-36	36	51	5.0	10
	GMM-42	42	60	5.0	5
	GMM-48	48	64	5.5	5

Nickel-plated brass

Maximum possible torque

Safe system connection

Type MM - Hexagonal lock nut, brass, metric thread for EMC applications

	Order no.	Fits to thread metric	Wrench size (mm)	Height (mm)	PU (pcs)
	GMM-M12/EMV	M12 x 1.5	16.6	3.5	100
	GMM-M16/EMV	M16 x 1.5	21.0	3.5	100
	GMM-M20/EMV	M20 x 1.5	26.7	3.7	100
	GMM-M25/EMV	M25 x 1.5	33.5	4.2	100
	GMM-M32/EMV	M32 x 1.5	39.0	4.7	100
	GMM-M40/EMV	M40 x 1.5	50.0	5.7	50
	GMM-M50/EMV	M50 x 1.5	66.0	5.7	10
	GMM-M63/EMV	M63 x 1.5	78.0	6.7	10

Nickel-plated brass

Maximum possible torque

Safe system connection