PMA Smart Line IP66
General technical details

Modern, versatile and attractive. Functional and modern design, providing excellent value for money. Suitable for machine building, installation and construction industries.

One-piece design, IP66 protection and simple, fast installation are the outstanding features of the Smart Line. Other characteristics including a modern, functional design and an excellent price/performance ratio make this product line a very attractive solution.

Material
- Fittings made from specially formulated polyamide 6
- Self-extinguishing
- Free from halogens, REACH + RoHS compliant
- Temperature range: -45°C to +105°C, short-term to +150°C

Characteristics
- High impact resistance
- Good conduit pull-out strength
- Vibration-proof connection to PMA conduits
- Fits conduit profiles – fine (T) and coarse (G)
- To avoid accidental opening, dissassembling only possible with a screwdriver

PMA Smart Line

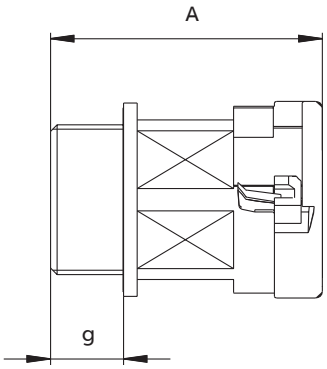
General technical details

Patent

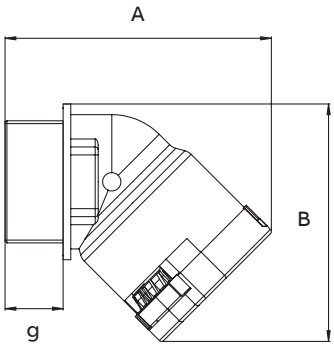
IP66

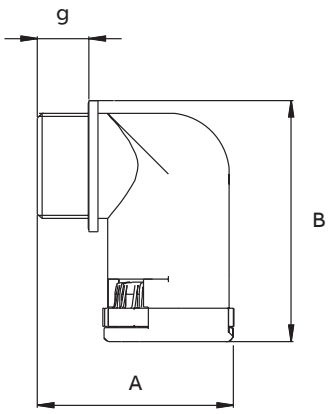
IP66 static
IP54 dynamic

- One piece fitting
- Conical sealing method
- Integrated sealing lip in thread flange
- Easy “push-in” installation
- Ready for installation (fitting gets delivered with engaged locking elements)



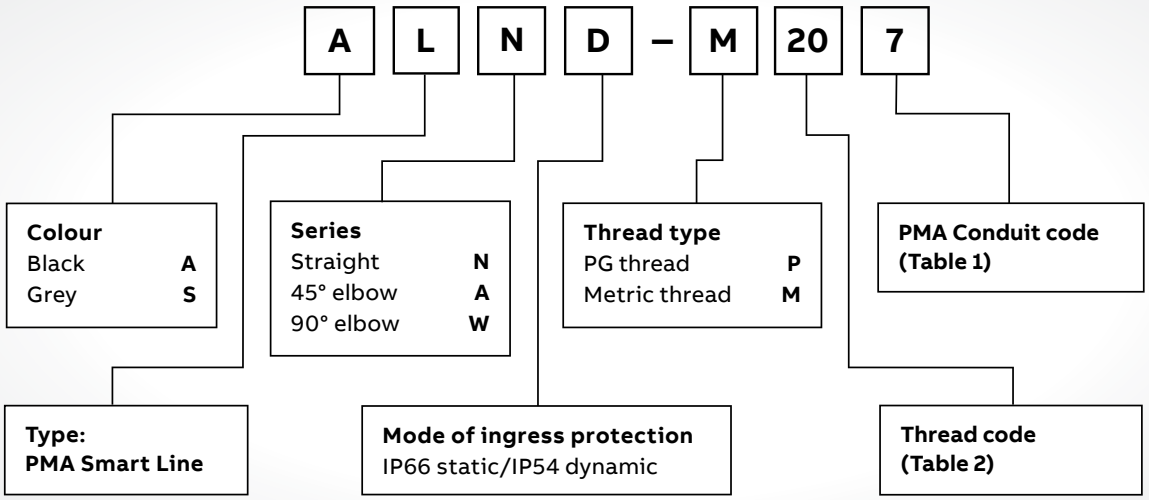
g = Thread length A = Overall length





g = Thread length A x B = External dimensions

PMA Smart Line
Part number codes

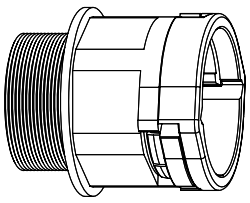


PMA Smart Line series fittings

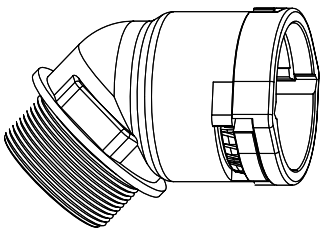
01 Straight (N)

02 45° elbow (A)

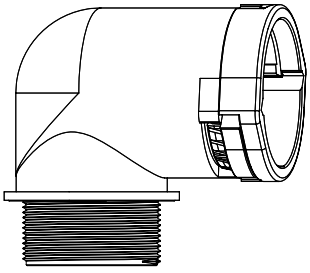
03 90° elbow (W)



01



02



03

PMA Smart Line

Size codes, installation

Table 1: Conduit codes

Nominal width	Metric size	PMA code
07	10	M
10	12	0
12	16	2
17	20	7
23	25	3
29	32	9
36	40	6
48	50	8

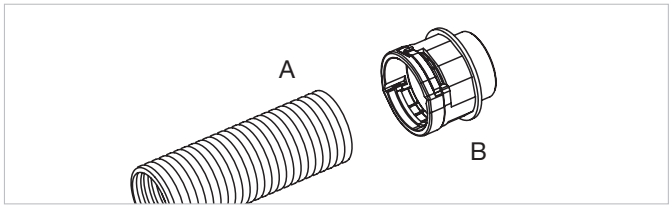
Table 2: Thread codes

Thread Metric	PMA code
M12 x 1.5	M12
M16 x 1.5	M16
M20 x 1.5	M20
M25 x 1.5	M25
M32 x 1.5	M32
M40 x 1.5	M40
M50 x 1.5	M50
M63 x 1.5	M63

Thread PG	PMA code
PG07	P07
PG09	P09
PG11	P11
PG13.5	P13
PG16	P16
PG21	P21
PG29	P29
PG36	P36
PG48	P48

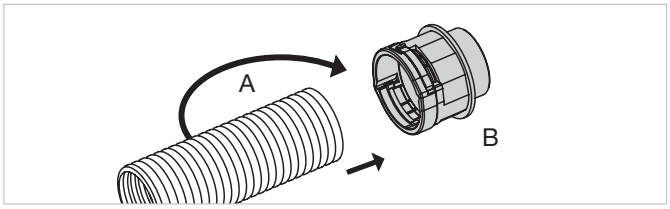
Installation IP66

Ready for installation (fitting gets delivered with engaged locking elements).



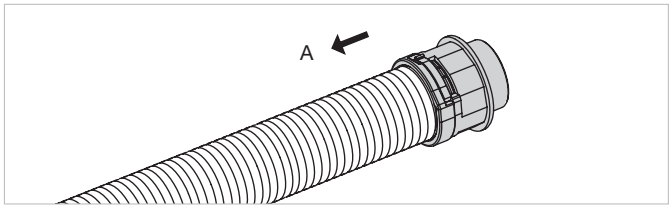
01

A = Conduit
B = Fitting



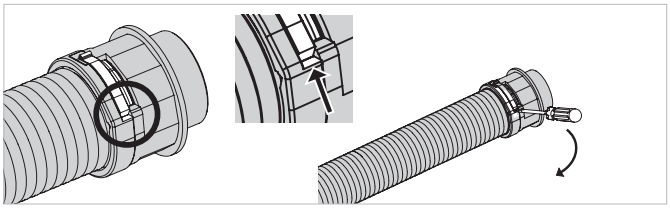
02

Push in the conduit (A) with a slight twist until the stop.



03

Pull back the conduit (A) slightly to ensure the locking mechanism is fully engaged.



04

To disengage the locking mechanism use a size 1 screwdriver.

Metric fittings, polyamide thread

Type LND & LAD

Type LND - Straight fitting, metric thread

	Order no. black, IP66	Order no. grey, IP66	Thread metric	Fits to conduit size NW	Thread length (mm)	Overall length (mm)	PU (pcs)
LND, patent	ALND-M120	SLND-M120	M12 x 1.5	10	11.0	34.0	100
	ALND-M160	SLND-M160	M16 x 1.5	10	11.0	34.0	100
	ALND-M162	SLND-M162	M16 x 1.5	12	11.0	38.0	100
	ALND-M200	SLND-M200	M20 x 1.5	10	11.0	34.0	100
	ALND-M202	SLND-M202	M20 x 1.5	12	11.0	38.0	100
	ALND-M207	SLND-M207	M20 x 1.5	17	11.0	41.0	100
	ALND-M257	SLND-M257	M25 x 1.5	17	12.0	42.0	100
	ALND-M253	SLND-M253	M25 x 1.5	23	12.0	45.5	50
	ALND-M323	SLND-M323	M32 x 1.5	23	15.0	48.5	50
	ALND-M329	SLND-M329	M32 x 1.5	29	15.0	50.5	30
	ALND-M409	SLND-M409	M40 x 1.5	29	19.0	54.5	30
	ALND-M406	SLND-M406	M40 x 1.5	36	19.0	60.5	20
	ALND-M506	SLND-M506	M50 x 1.5	36	19.0	61.0	20
	ALND-M508	SLND-M508	M50 x 1.5	48	19.0	61.0	10
	ALND-M638	SLND-M638	M63 x 1.5	48	19.0	61.0	10

Easy “push-in” installation
Ready for installation (fitting gets delivered with engaged locking elements)

Type LAD - 45° elbow fitting, metric thread

	Order no. black, IP66	Order no. grey, IP66	Thread metric	Fits to conduit size NW	Thread length (mm)	External Dimensions (mm)	PU (pcs)
LAD, patent	ALAD-M120	SLAD-M120	M12 x 1.5	10	11.0	42.5 x 33.0	100
	ALAD-M160	SLAD-M160	M16 x 1.5	10	11.0	42.5 x 35.0	100
	ALAD-M162	SLAD-M162	M16 x 1.5	12	11.0	47.5 x 39.5	100
	ALAD-M202	SLAD-M202	M20 x 1.5	12	11.0	47.5 x 41.5	100
	ALAD-M207	SLAD-M207	M20 x 1.5	17	11.0	54.0 x 46.0	100
	ALAD-M257	SLAD-M257	M25 x 1.5	17	12.0	55.0 x 48.5	50
	ALAD-M253	SLAD-M253	M25 x 1.5	23	12.0	63.5 x 55.5	100
	ALAD-M323	SLAD-M323	M32 x 1.5	23	15.0	67.0 x 60.0	50
	ALAD-M329	SLAD-M329	M32 x 1.5	29	15.0	72.5 x 63.5	30
	ALAD-M409	SLAD-M409	M40 x 1.5	29	19.0	76.5 x 66.5	20
	ALAD-M406	SLAD-M406	M40 x 1.5	36	19.0	87.5 x 78.0	30
	ALAD-M506	SLAD-M506	M50 x 1.5	36	19.0	88.0 x 82.0	20
	ALAD-M508	SLAD-M508	M50 x 1.5	48	19.0	97.5 x 88.0	10
	ALAD-M638	SLAD-M638	M63 x 1.5	48	19.0	97.5 x 94.5	10

Easy “push-in” installation
Ready for installation (fitting gets delivered with engaged locking elements)

Metric fittings, polyamide thread

Type LWD

Type LWD - 90° elbow fitting, metric thread

	Order no. black, IP66	Order no. grey, IP66	Thread metric	Fits to conduit size NW	Thread length (mm)	External dimensions (mm)	PU (pcs)
LWD, patent	ALWD-M120	SLWD-M120	M12 x 1.5	10	11.0	33.0 x 36.5	100
	ALWD-M160	SLWD-M160	M16 x 1.5	10	11.0	33.0 x 38.5	100
	ALWD-M162	SLWD-M162	M16 x 1.5	12	11.0	37.5 x 43.0	100
	ALWD-M202	SLWD-M202	M20 x 1.5	12	11.0	37.5 x 45.0	100
	ALWD-M207	SLWD-M207	M20 x 1.5	17	11.0	42.0 x 50.5	100
	ALWD-M257	SLWD-M257	M25 x 1.5	17	12.0	43.0 x 53.0	100
	ALWD-M253	SLWD-M253	M25 x 1.5	23	12.0	52.5 x 59.0	50
	ALWD-M323	SLWD-M323	M32 x 1.5	23	15.0	56.0 x 62.5	50
	ALWD-M329	SLWD-M329	M32 x 1.5	29	15.0	62.5 x 69.0	30
	ALWD-M409	SLWD-M409	M40 x 1.5	29	19.0	66.5 x 72.0	30
	ALWD-M406	SLWD-M406	M40 x 1.5	36	19.0	76.0 x 83.0	20
	ALWD-M506	SLWD-M506	M50 x 1.5	36	19.0	76.0 x 87.0	20
	ALWD-M508	SLWD-M508	M50 x 1.5	48	19.0	89.0 x 92.5	10
	ALWD-M638	SLWD-M638	M63 x 1.5	48	19.0	89.0 x 99.0	10

Easy “push-in” installation
Ready for installation (fitting gets delivered with engaged locking elements)