

TECHNICAL DATA SHEET

PMA Smart Line - LLPO - Corrugated Conduit

Very flexible, light-grade



Very flexible conduit ideal for machine building, installation and vehicle construction



Applications:

- In machine building and installation industries, vehicle construction

Features & Benefits:

- Very good insulating characteristics
- Good fire safety characteristics
- Self-extinguishing
- Very Good flexibility
- Good impact resistance
- Good resistance against strong acids

Materials:

- Specially modified polypropylene

Compatible with:

- PMAFIX, PMA Smart Line fittings
- PMA accessories

Temperature range:

- 20°C ... +90°C continuous, +130°C short-term

Weathering resistance:

- Good UV resistance and weathering characteristics, particularly in black

Colour:

- Black
- Grey

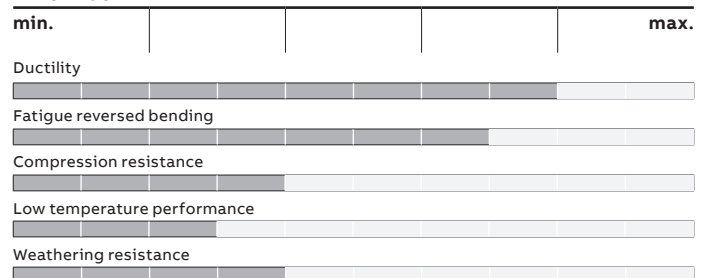
Chemical properties:

- Please refer to www.pma.ch (Technical Information / Chemical Resistance)

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

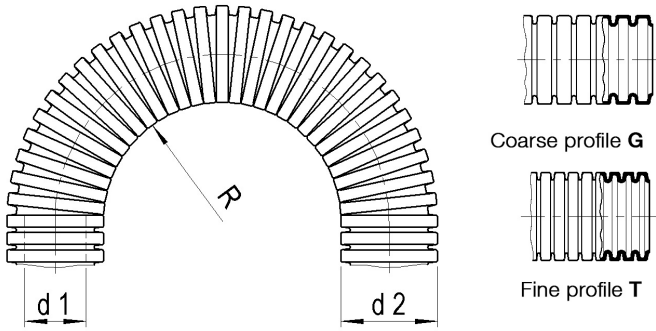
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Product selection:

Part no.		Profile	Conduit size		rec. fitting thread size		Dimensions in mm (nom.)			Weight	Packing unit
black	grey	T/G	NW	metric	PG	metric	d1	d2	stat. R	kg/100 m	metre
LLPO-07A	LLPO-07S	T	7	10	7	M12 x 1.5	6.8	10.0	15	1.5	50
LLPO-10A	LLPO-10S	T	10	12	9	M12 x 1.5	9.8	12.8	20	2.2	50
LLPO-12A	LLPO-12S	T	12	16	11	M16 x 1.5	12.2	15.6	25	3.1	50
LLPO-17A	LLPO-17S	T	17	20	16	M20 x 1.5	16.8	21.1	35	4.8	50
LLPO-23A	LLPO-23S	T	23	25	21	M25 x 1.5	23.4	28.4	45	8.6	50
LLPO-29A	LLPO-29S	T	29	32	29	M32 x 1.5	29.1	34.5	55	11.3	50
LLPO-36A	LLPO-36S	T	36	40	36	M40 x 1.5	36.2	42.4	65	15.0	30
LLPO-48A	LLPO-48S	T	48	50	48	M50 x 1.5	47.3	54.5	80	21.0	30

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time



stat. R. = lowest recommended bending radius for static (fixed) installation

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	> 4 J		PMA DO 9.21-4330
Density	0.90 ... 0.94 g/cm ³		DIN 53479
Compression strength	> 150 N	(50 mm)	PMA DO 9.21-4320
	> 300 N	(100 mm)	
Reverse bending resistance	> 300'000 cycles		PMA DO 9.21-4420
	> 1'000'000 cycles		PMA DO 9.21-4425
Pull-out resistance conduit - fitting series			
PMAFIX IP66	> 250 N		PMA DO 9.21-4610
PMAFIX IP68	> 200 N		PMA DO 9.21-4610
PMA Smart Line	> 150 N		PMA DO 9.21-4610
PMA Smart Line, PMAFIX Pro, PMAFIX IP66 & IP68	class 1		IEC EN 61386

Note: Testing at 23°C, 50% r.h., conduit nominal width 17, unless otherwise stated

Thermal properties:	Value:	Test parameters:	Test method:
Temperature range	-20 ... +90°C		PMA DO 9.21-4510
Short-term	+130°C	(168 h)	PMA DO 9.21-4360

Fire safety properties:	Value:	Test parameters:	Test method:
Free from halogens	yes		DIN 53474
Fire performance	V2		UL 94
Fire performance	compliant		UL 224
Fire performance	30 s		EN ISO 11925-2
Fire risk level	LR4		UNI CEI 11170-3 Ed. 2005
Flame classification	S4 / SR2 / ST2		DIN 5510
Non-flame propagating	pass		EN 50086 / IEC 61386
Smoke emission class	F1		NF F 16-101 + 102

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