

TECHNICAL DATA SHEET

PMAFLEX Multilayer - XVCS2H - Corrugated Conduit

Flexible, Heavy-duty

PMA



Very flexible conduit ideal for track side applications and other exterior static applications with high UV exposure



Applications:

- External applications, e.g. solar systems, signalling, CCTV and track side applications

Features & Benefits:

- Very long life time, >20 - 30 years
- Excellent low temperature performance
- Easy installation through flexibility
- Low friction inner layer facilitates cable insertion
- Very good mechanical strength combined with high flexibility
- Impermeable to water and steam
- Good resistance to rodents
- No prone to accumulation of fungus or mould

Materials:

- Outer layer: High-grade, specially formulated polyamide 12
- Inner layer: Specially modified polyolefin

Compatible with:

- PMAFIX Pro, PMAFIX, PMA Smart Line fittings
- PMA accessories

Temperature range:

- -50°C ... +90°C continuous, +120°C short-term

Weathering resistance:

- Excellent UV resistance and weathering characteristics

Colour:

- Outer layer: black
- Inner layer: green

Chemical properties:

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

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

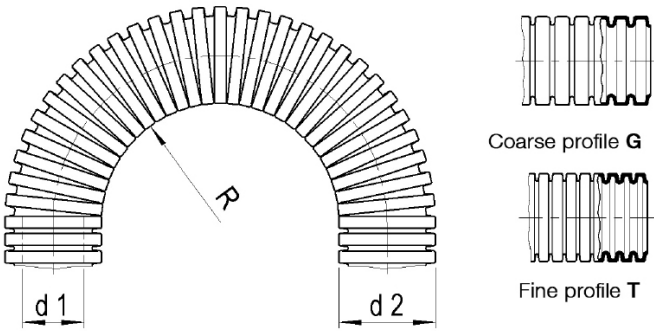
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min.											max.
Ductility	[Progressive bar chart showing high ductility]										
Fatigue reversed bending	[Progressive bar chart showing good fatigue resistance]										
Compression resistance	[Progressive bar chart showing moderate compression resistance]										
Low temperature performance	[Progressive bar chart showing excellent low temperature performance]										
Weathering resistance	[Progressive bar chart showing excellent weathering resistance]										

Product selection:

Part no.	Profile	Conduit size		rec. fitting thread size		Dimensions in mm (nom.)			Weight kg/100 m	Packing unit metre
		NW	metric	PG	metric	d1	d2	stat. R		
XVCS2H-10BG	T	10	12	9	M12x1.5	9.4	12.8	20	3.2	50
XVCS2H-12BG	T	12	16	11	M16x1.5	11.7	15.6	25	4.5	50
XVCS2H-17BG	G	17	20	16	M20x1.5	15.4	21.1	35	7.5	50
XVCS2H-23BG	G	23	25	21	M25x1.5	22.0	28.4	40	11.0	50
XVCS2H-29BG	G	29	32	29	M32x1.5	27.7	34.5	50	14.0	50
XVCS2H-36BG	G	36	40	36	M40x1.5	35.8	42.4	60	17.0	30
XVCS2H-48BG	G	48	50	48	M50x1.5	46.8	54.5	70	23.0	30

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



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

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	> 13.5 J	(+23°C)	PMA DO 9.21-4330
	> 12.2 J	(-18°C)	CSA C22.2 Nr. 227.3 / UL 1696
	class 3, > 2 J	(-45°C)	IEC EN 61386
	class 4, > 6 J	(-15°C)	IEC EN 61386
	class 5, > 20 J	(+23°C)	IEC EN 61386
Compression strength	> 250 N		PMA DO 9.21-4320
	> 500 N		PMA DO 9.21-4320
	class 2		IEC EN 61386
Resistance to fatigue	> 100'000		PMA DO 9.21-4425
	class 4, flexible	(-45°C)	IEC EN 61386
Pull-out resistance conduit - fitting series			
PMAFIX Pro	> 300 N		PMA DO 9.21-4610
PMAFIX IP68	> 250 N		PMA DO 9.21-4610
PMAFIX IP66	> 230 N		PMA DO 9.21-4610
PMAFIX Pro, PMAFIX IP66 & IP68	class 1		IEC EN 61386

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

Thermal properties:	Value:	Test parameters:	Test method:
Continuous application temperature	-50 ... +90°C		PMA DO 9.21-4510
Upper application temperature	+100°C	(20'000 h)	PMA DO 9.21-4360
Short-term	+120°C	(168 h)	PMA DO 9.21-4360
Application temperature range	-45 ... +90°C		IEC EN 61386

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	flame-propagating level 2	(1kw burner test)	IEC EN 61386

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