

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

CE

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

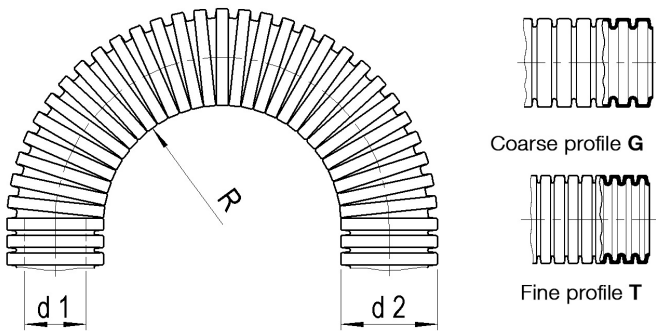
XVCS2H-Index

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

ABB Switzerland Ltd,
PMA Cable Protection
Aathalstrasse 90
8610 Uster, Switzerland
Phone: +41 58 585 00 11
pma-info@ch.abb.com
www.pma.ch

Let's write the future.
Together. **abb.com**

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Installation Products Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc. Copyright© 2019 ABB Installation Products Inc. All rights reserved

