

TECHNICAL DATA SHEET

PMA Ex - XESX - Corrugated Conduit

Flexible, heavy-grade

PMA



Flexible, anti static conduit ideal for hazardous areas such as explosion endangered zones.



Applications:

- For indoor and outdoor applications in hazardous areas

Features & Benefits:

- Electrostatically discharging
- Excellent mechanical characteristics, also under extreme climatic conditions as low temperature
- High abrasion resistance

Materials:

- Outer layer: multilayer conduit with dissipative PA12
- Inner layer: impact resistant HDPE

Compatible with:

- PMA Ex Non Metallic fittings and accessories
- Metallic fittings Type: EXPQ (metric thread)

Conforms to:

- EN/IEC 60079-0, 60079-7, 60079-31

Weathering resistance:

- Very good UV resistance and weathering characteristics

Colour:

- Outer layer: black
- Inner layer: yellow

Chemical properties:

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

EC TYPE Examination Certificate for use with EXPQ metallic fittings:

- Baseefa 08 ATEX 0003X, IECEx BAS 8.0001X
- Ex eb IIC Gb
- Ex tb IIIC Db

EC TYPE Examination Certificate for use with non metallic fittings and accessories:

- SEV 15 ATEX 0121X, IECEx SEV 15.0009X
- Ex eb IIC Gb
- Ex tb IIIC Db

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

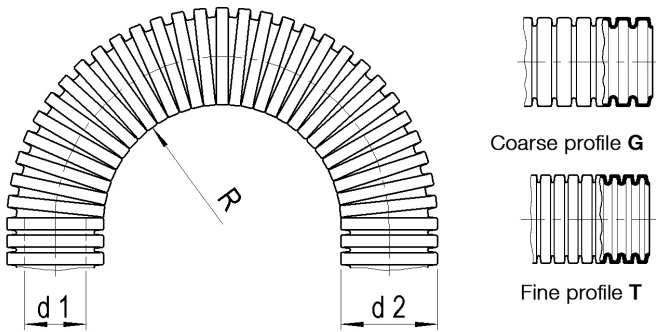
XESX-Index

min.					max.
Ductility	<div style="background-color: #cccccc; width: 100%; height: 10px;"></div>				
Fatigue reversed bending	<div style="background-color: #cccccc; width: 100%; height: 10px;"></div>				
Compression resistance	<div style="background-color: #cccccc; width: 100%; height: 10px;"></div>				
Low temperature performance	<div style="background-color: #cccccc; width: 100%; height: 10px;"></div>				
Weathering resistance	<div style="background-color: #cccccc; width: 100%; height: 10px;"></div>				

Product selection:

Part no.	Profile	Conduit size	rec. fitting thread size	Dimensions in mm (nom.)				Weight	Packing unit
				d1	d2	stat. R	dyn. R.		
black	T/G	NW	metric	d1	d2	stat. R	dyn. R.	kg/100 m	metre
XESX0250	T	10	M12 / M16	9.2	12.8	25	65	3.0	50
XESX0350	T	12	M16 / M20	11.8	15.6	30	70	4.2	50
XESX0450	G	17	M20 / M25	15.2	21.1	35	85	7.0	50
XESX0550	G	23	M25 / M32	22.0	28.4	40	110	10.5	50
XESX0650	G	29	M32 / M40	27.5	34.5	50	130	14.0	50
XESX0730	G	36	M40 / M50	35.8	42.4	60	180	18.5	30
XESX0830	G	48	M50 / M63	46.8	54.5	70	220	25.0	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

dyn. R. = lowest recommended bending radius for dynamic (flexible) installation

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	≥ 7 J	(+85°C)	EN 60079-0
	≥ 7 J	(-40°C)	EN 60079-0
	> 6 J	(+23°C)	PMA DO 9.21-4330
Compression strength	> 300 N	(50 x 50 mm)	PMA DO 9.21-4320
	> 600 N	(100 x 100 mm)	
Reverse bending resistance	> 200'000 cycles		PMA DO 9.21-4420
	> 600'000 cycles		PMA DO 9.21-4425
Pull-out resistance conduit - fitting seriesconnect:			
PMA Ex-System, type - IP68	> 400		PMA DO 9.21-4610

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

Thermal properties:	Value:	Test parameters:	Test method:
XESX in NW10 - NW48: certified for use in hazardous locations with EXPQM metallic fittings	-40 ... +85°C		EN 60079-0
XESX in NW 10 - NW12: certified for use in hazardous locations with PMA Nylon ATEX / IECEx fittings	-5 ... +85°C		EN 60079-0
XESX in NW 17 - NW48: certified for use in hazardous locations with PMA Nylon ATEX / IECEx fittings	-20 ... +85°C		EN 60079-0
XESX: in general antistatic applications without ATEX, IECEx approval	-50 ... +90°C		PMA DO 9.21-4510

Electrical properties:	Value:	Test parameters:	Test method:
Specific surface resistivity	< 10 ⁶ Ω		IEC 62631-3-2

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

