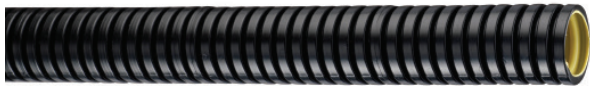


TECHNICAL DATA SHEET

PMA Ex-System - 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:

- Prevents electrostatic charging
- Excellent mechanical characteristics, also under extreme climatic conditions as low temperature

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:

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

Weathering resistance:

- Very good UV resistance and weathering characteristics

Colour:

- Outer layer: black
- Inner layer: yellow

Certificate for use with EXPQ metallic fittings:

- Baseefa 08 ATEX 0003X
- IECEx BAS 8.0001X

Certificate for use with non metallic fittings and accessories:

- SEV 15 ATEX 0121X
- IECEx SEV 15.0009X

Ex-Markings:

- Ex eb IIC Gb
- Ex tb IIIC Db

Chemical properties:

- Please refer to www.pma.ch for more technical information and informations on chemical resistance

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

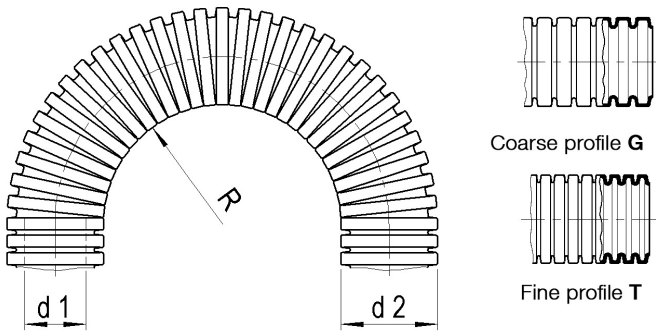
XESX-Index

min.				max.
Ductility				
Fatigue reversed bending				
Compression resistance				
Low temperature performance				
Weathering resistance				

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/yellow	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. = min. bending radius for static (fixed) installation

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

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	> 6 J	(+23°C)	PMA DO 9.21-4330
Compression strength	> 220 N	(50 x 50 mm)	PMA DO 9.21-4320
Resistance to fatigue	> 200'000 cycles		PMA DO 9.21-4420
	> 600'000 cycles		PMA DO 9.21-4425
Pull-out resistance conduit - fitting series:			
PMA Ex-System, type - IP68	> 400 N		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:
Surface resistivity	< 10 ⁶ Ω		IEC 60093

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

