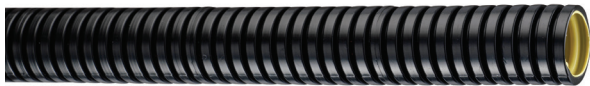


TECHNICAL DATA SHEET

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
- 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:

- 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

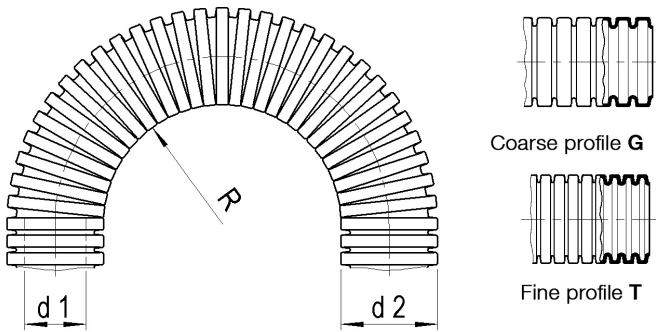
XESX-Index

| 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 | > 300 N | (50 x 50 mm) | PMA DO 9.21-4320 |
| | > 600 N | (100 x 100 mm) | |
| 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 |

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