

## **PMAFLEX Multilayer - XVCSF - Corrugated Conduit**

Flexible, heavy-duty

CE UK  
CA

Excellent resistance to impact at low temperatures

- Good flexibility
- High compression and impact strengths at low temperature and low humidity
- Self-extinguishing

- Outer layer: specially formulated polyamide 6
- Inner layer: specially modified polyamide 6

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

- -50°C ... +105°C continuous, +160°C short-term

- EN 45545-2 HL2 (R22 & R23)

- Very good UV resistance and weathering characteristics

- Outer layer: black
- Inner layer: blue

- Please refer to [www.pma.ch](http://www.pma.ch)  
(Technical Information / Chemical Resistance)

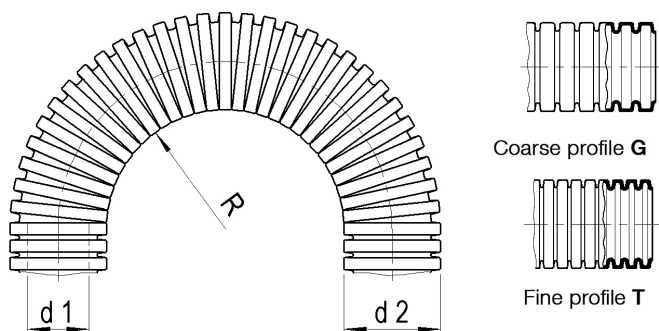
- Free from halogens and cadmium
- RoHS and REACH compliant

TDS - XVCSF - 10063-04

**Product selection:**

| Part no.    | Profile | Conduit size |        | rec. fitting thread size |         | Dimensions in mm (nom.) |      |         | Weight<br>kg/100 m | Packing unit<br>metre |
|-------------|---------|--------------|--------|--------------------------|---------|-------------------------|------|---------|--------------------|-----------------------|
|             |         | NW           | metric | PG                       | metric  | d1                      | d2   | stat. R |                    |                       |
| XVCSFT-07BB | T       | 7            | 10     | 9                        | M12x1.5 | 6.7                     | 10.0 | 15      | 2.5                | 50                    |
| XVCSFT-10BB | T       | 10           | 12     | 9                        | M12x1.5 | 9.6                     | 12.8 | 20      | 3.1                | 50                    |
| XVCSFT-12BB | T       | 12           | 16     | 11                       | M16x1.5 | 11.9                    | 15.6 | 25      | 4.2                | 50                    |
| XVCSFG-17BB | G       | 17           | 20     | 16                       | M20x1.5 | 15.6                    | 21.1 | 40      | 7.5                | 50                    |
| XVCSFG-23BB | G       | 23           | 25     | 21                       | M25x1.5 | 21.5                    | 28.4 | 50      | 12.0               | 50                    |
| XVCSFG-29BB | G       | 29           | 32     | 29                       | M32x1.5 | 27.7                    | 34.5 | 60      | 15.0               | 50                    |
| XVCSFG-36BB | G       | 36           | 40     | 36                       | M40x1.5 | 35.9                    | 42.4 | 75      | 19.0               | 30                    |
| XVCSFG-48BB | G       | 48           | 50     | 48                       | M50x1.5 | 46.8                    | 54.5 | 90      | 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

| Mechanical Properties:                       | Value:         | Test parameters: | Test method:                  |
|----------------------------------------------|----------------|------------------|-------------------------------|
| Impact strength                              | > 12.2 J       | (-18°C)          | CSA C22.2 Nr. 227.3 / UL 1696 |
|                                              | class 3, > 2J  | (-45°C)          | IEC EN 61386                  |
|                                              | class 4, > 6J  | (-15°C)          | IEC EN 61386                  |
|                                              | class 5, > 20J | (+23°C)          | IEC EN 61386                  |
|                                              | > 13.5 J       | (+23°C)          | PMA DO 9.21-4330              |
|                                              | > 4.5 J        | (-40°C)          | PMA DO 9.21-4330              |
| Compression strength                         | class 2        |                  | IEC EN 61386                  |
|                                              | > 250 N        | (50 x 50 mm)     | PMA DO 9.21-4320              |
|                                              | > 500 N        | (100 x 100 mm)   | PMA DO 9.21-4320              |
| Resistance to fatigue                        | > 5'000 cycles | (-45°C)          | IEC EN 61386-23               |
| Pull-out resistance conduit - fitting series |                |                  |                               |
| PMAFIX IP68                                  | class 2        |                  | IEC EN 61386                  |
|                                              | > 350 N        |                  | PMA DO 9.21-4610              |
| PMAFIX IP66                                  | class 1        |                  | IEC EN 61386                  |
|                                              | > 200 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:     |
|------------------------------------|----------------|------------------|------------------|
| Application temperature range      | -45 ... +105°C |                  | IEC EN 61386     |
| Continuous application temperature | -50 ... +105°C |                  | PMA DO 9.21-4510 |
| Upper application temperature      | +120°C         | (20'000 h)       | PMA DO 9.21-4360 |
| Short-term                         | +160°C         | (168 h)          | PMA DO 9.21-4360 |

| Fire safety properties: | Value:                   | Test parameters: | Test method:                          |
|-------------------------|--------------------------|------------------|---------------------------------------|
| Fire performance        | non flame-propagating    |                  | IEC EN 61386                          |
| Fire hazard level       | HL2                      |                  | EN 45545-2 (R22)                      |
| Oxygen index            | > 28 %                   |                  | EN ISO 4589-2                         |
| Smoke density           | < 300 Ds max.            |                  | EN ISO 5659-2 (25 kW/m <sup>2</sup> ) |
| Toxicity                | < 0.9 CIT <sub>NLP</sub> |                  | NF X 70-100-1/-2: (600°C)             |
| Fire hazard level       | HL2                      |                  | EN 45545-2 (R23)                      |
| Oxygen index            | > 28 %                   |                  | EN ISO 4589-2                         |
| Smoke density           | < 300 Ds max.            |                  | EN ISO 5659-2 (25 kW/m <sup>2</sup> ) |
| Toxicity                | < 1.8 CIT <sub>NLP</sub> |                  | NF X 70-100-1/-2: (600°C)             |

Note: Requirement sets (R22 & R23) apply for conduit sizes up to and including NW48

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