

TECHNICAL DATA SHEET

## **PMAFLEX Pro - PLU - Corrugated Conduit**

# Flexible, medium-duty





Corrugated conduit ideal for highest fire and passenger safety requirements







## **Applications:**

 For applications with the highest fire safety performance requirements

#### Features & Benefits:

- Excellent fire safety characteristics
- Self-extinguishing
- Very good insulating characteristics
- · Good flexibility
- Good resistance against strong acids and alkalies

## Materials:

• Specially modified polypropylene

## Compatible with:

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

#### Temperature range:

• -25°C ... +95°C continuous

#### Conforms to:

• London Underground Limited registered product

## Weathering resistance:

• Good UV resistance and weathering characteristics, particularly in black

## **Colour:**

- Glack
- Grey

### **Chemical properties:**

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

## **Environmental properties:**

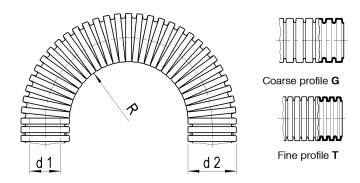
- Free from halogens and cadmium
- · RoHS and REACH compliant

## PLU-Index

| min.             |         |      |  |  | max. |
|------------------|---------|------|--|--|------|
| Ductility        |         |      |  |  |      |
| Fatigue reversed | bending |      |  |  |      |
| Compression res  | istance |      |  |  |      |
| Low temperature  | perform | ance |  |  |      |
| Weathering resis | tance   |      |  |  |      |

| duct selectio | n:       |         |              |        |                             |           |                         |      |         |              |       |
|---------------|----------|---------|--------------|--------|-----------------------------|-----------|-------------------------|------|---------|--------------|-------|
| Part no.      |          | Profile | Conduit size |        | rec. fitting<br>thread size |           | Dimensions in mm (nom.) |      | Weight  | Packing unit |       |
| black         | grey     | T/G     | NW           | metric | PG                          | metric    | d1                      | d2   | stat. R | kg/100 m     | metre |
| PLUT-10B      | PLUT-10S | Т       | 10           | 12     | 9                           | M12 x 1.5 | 9.7                     | 12.8 | 20      | 3.6          | 50    |
| PLUT-12B      | PLUT-12S | Т       | 12           | 16     | 11                          | M16 x 1.5 | 12.1                    | 15.6 | 25      | 4.7          | 50    |
| PLUG-17B      | PLUG-17S | G       | 17           | 20     | 16                          | M20 x 1.5 | 15.6                    | 21.1 | 40      | 10.0         | 50    |
| PLUG-23B      | PLUG-23S | G       | 23           | 25     | 21                          | M25 x 1.5 | 22.0                    | 28.4 | 50      | 13.5         | 50    |
| PLUG-29B      | PLUG-29S | G       | 29           | 32     | 29                          | M32 x 1.5 | 27.7                    | 34.5 | 60      | 18.0         | 50    |
| PLUG-36B      | PLUG-36S | G       | 36           | 40     | 36                          | M40 x 1.5 | 36.0                    | 42.4 | 75      | 22.0         | 30    |
| PLUG-48B      | PLUG-48S | G       | 48           | 50     | 48                          | M50 x 1.5 | 47.1                    | 54.5 | 90      | 26.0         | 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

| Mechanical Properties:                    | Value:         | Test parameters: | Test method:     |
|---|----------------|------------------|------------------|
| Impact strength                           | > 3 J          |                  | PMA DO 9.21-4330 |
| Compression strength                      | > 140 N        | (50 mm)          | PMA DO 9.21-4320 |
|   | > 280 N        | (100 mm)         |                  |
| Compression deformation                   | max. 50 %      |                  |                  |
| Reverse bending resistance                | > 5'000 cycles | (-15°C)          | IEC EN 61386-23  |
|   | pliable        | (-25°C)          | IEC EN 61386-22  |
| Pull-out resistance conduit - fitting ser | ies            |                  |                  |
| PMAFIX Pro                                | > 350 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:     |
|---------------------|-----------|------------------|------------------|
| Temperature range   | −25 +95°C |                  | PMA DO 9.21-4510 |

| Fire safety properties: | Value:         | Test parameters: | Test method:   |
|-------------------------|----------------|------------------|----------------|
| Fire performance        | 1a             |                  | BS 6853        |
| Fire performance        | category-/EQ/l |                  | LUL 1-085 A3   |
| Fire performance        | VO             |                  | UL 94 (3.2 mm) |
| Limited oxygen index    | > 40 %         |                  | ISO 4589-1     |

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