TECHNICAL DATA SHEET

## PMA FLEXPLus - CUS - Corrugated Conduit Very flexible, medium-duty

## PMA



Very flexible conduit, the inexpensive solution for requirements according to UL 1660 (UL Listed)

## ( $€$

## Applications:

- For machine building and installation industries
- For electrical installations


## Features \& Benefits:

- Cost-effective
- Very Good flexibility
- Very good mechanical properties even under extreme conditions, such as low temperatures and low humidity
- Self-extinguishing


## Materials:

- High-grade, specially formulated polyamide 6


## Compatible with:

- PMA FIXPlus fittings


## Temperature range:

- $-40^{\circ} \mathrm{C} \ldots+105^{\circ} \mathrm{C}$ continuous, $+160^{\circ} \mathrm{C}$ short-term


## Conforms to:

- UL Listed according to UL1660 (UL File E311441)


## Weathering resistance:

- Good UV resistance and weathering characteristics, particularly in black


## Colour:

- Black
- Grey


## Chemical properties:

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


## Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant



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 | > 5 J | $\left(+23^{\circ} \mathrm{C}\right)$ | PMA DO 9.21-4330 |
|  | class 3, > 2 J | $\left(-45^{\circ} \mathrm{C}\right)$ | IEC EN 61386 |
|  | class 4, > 6 J | $\left(-15^{\circ} \mathrm{C}\right)$ | IEC EN 61386 |
|  | class 5, > 20 J | $\left(+23^{\circ} \mathrm{C}\right)$ | IEC EN 61386 |
| Compression strength | $>150 \mathrm{~N}$ | ( $50 \times 50 \mathrm{~mm}$ ) | PMA DO 9.21-4320 |
|  | > 300 N | ( $100 \times 100 \mathrm{~mm}$ ) | PMA DO 9.21-4320 |
|  | class 1 |  | IEC EN 61386 |
| Resistance to fatigue | > 200،000 cycles |  | PMA DO 9.21-4420 |
|  | > 500،000 cycles |  | PMA DO 9.21-4425 |
|  | class 4, flexible | $\left(-45^{\circ} \mathrm{C}\right)$ | IEC EN 61386 |
| Pull-out resistance conduit - fitting series: |  |  |  |
| PMA FIXPLus | > 250 N |  | PMA DO 9.21-4610 |
|  | class 2 |  | IEC EN 61386 |

Note: Testing at $23^{\circ} \mathrm{C}, 50 \%$ r.h., conduit nominal width 17 , unless otherwise stated

| Thermal properties: | Value: | Test parameters: | Test method: |
| :--- | :--- | ---: | ---: |
| Continuous application temperature | $-40 \ldots+105^{\circ} \mathrm{C}$ |  | PMA DO 9.21-4510 |
| Upper application temperature | $+120^{\circ} \mathrm{C}$ | $(20 \times 000 \mathrm{~h})$ | PMA DO 9.21-4360 |
| Short-term | $+160^{\circ} \mathrm{C}$ | $(168 \mathrm{~h})$ | PMA |
| Application 9.21-4360 |  |  |  |


| Fire safety properties: | Value: | Test parameters: | Test method: |
| :--- | :--- | :--- | :--- |
| Fire performance | non flame-propagating | IEC EN 61386 |  |
| Oxygen index | $>27 \%$ | EN ISO 4589-2 |  |
| Fire performance | V2 | UL 94 |  |
| Fire performance | compliant | UL 224 |  |

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ABB Switzerland Ltd,
PMA Cable Protection Aathalstrasse 90 8610 Uster, Switzerland Phone: +41585850011 pma-info@ch.abb.com www.pma.ch
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