## TECHNICAL DATA SHEET

## PMA Smart Line - ALAD-M - Fitting <br> $45^{\circ}$ elbow, one-piece, IP66, metric thread

## PMA



One-piece, IP66 polyamide fitting for flexible non-metallic conduit

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## Applications:

- In machine building, installation and construction industries


## Features \& Benefits:

- Economical
- Easy „push-in" installation
- Re-opening with screwdriver (for security reasons hand opening not possible)
- Space saving due to compact design
- Fits both conduit profiles - fine ( $T$ ) and coarse (G)


## Ingress protection:

- IP66 (EN/IEC 60529)


## Materials:

- High-grade, specially formulated polyamide 6


## Compatible with:

- PMAFLEX Pro Conduits
- PMAFLEX Multilayer Conduits
- PMAFLEX Conduits
- PMA Smart Line Conduits

| Product selection: |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part no. |  | Thread size | Conduit size | Dimensions in mm (nom.) |  |  |  | Weight <br> kg/100 pcs | Packing unit <br> pcs/PU |
| black | grey | metric | NW | 9 | d2 | A | B |  |  |
| ALAD-M120 | SLAD-M120 | M12x1.5 | 10 | 11.0 | 21.5 | 42.5 | 33.0 | 0.6 | 100 |
| ALAD-M160 | SLAD-M160 | M16x1.5 | 10 | 11.0 | 21.5 | 42.5 | 35.0 | 0.7 | 100 |
| ALAD-M162 | SLAD-M162 | M16x1.5 | 12 | 11.0 | 25.0 | 47.5 | 39.5 | 0.8 | 100 |
| ALAD-M202 | SLAD-M202 | M20×1.5 | 12 | 11.0 | 25.0 | 47.5 | 41.5 | 0.9 | 100 |
| ALAD-M207 | SLAD-M207 | M20x1.5 | 17 | 11.0 | 31.0 | 54.0 | 46.0 | 1.2 | 100 |
| ALAD-M253 | SLAD-M253 | M $25 \times 1.5$ | 23 | 12.0 | 39.0 | 63.5 | 55.5 | 2.2 | 50 |
| ALAD-M257 | SLAD-M257 | M $25 \times 1.5$ | 17 | 12.0 | 31.0 | 55.0 | 48.5 | 1.3 | 100 |
| ALAD-M323 | SLAD-M323 | M $32 \times 1.5$ | 23 | 15.0 | 39.0 | 67.0 | 60.0 | 2.3 | 50 |
| ALAD-M329 | SLAD-M329 | M $32 \times 1.5$ | 29 | 15.0 | 46.0 | 72.5 | 63.5 | 3.2 | 30 |
| ALAD-M406 | SLAD-M406 | M40x1.5 | 36 | 19.0 | 56.0 | 87.5 | 78.0 | 5.6 | 20 |
| ALAD-M409 | SLAD-M409 | M40x1.5 | 29 | 19.0 | 46.0 | 76.5 | 66.5 | 3.2 | 30 |
| ALAD-M506 | SLAD-M506 | M50x1.5 | 36 | 19.0 | 56.0 | 88.0 | 82.0 | 5.6 | 20 |
| ALAD-M508 | SLAD-M508 | M50x1.5 | 48 | 19.0 | 68.0 | 97.5 | 88.0 | 8.5 | 10 |
| ALAD-M638 | SLAD-M638 | M63x1.5 | 48 | 19.0 | 68.0 | 97.5 | 94.5 | 7.8 | 10 |

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time


| Mechanical Properties: | Value: | Test parameters: | Test method: |
| :--- | :--- | ---: | :--- |
| Tensile modulus | $1 ‘ 200 \ldots 3^{\prime} 700 \mathrm{~N} / \mathrm{mm} 2$ | ISO 527 |  |
| Tensile strength | $45 \ldots 65 \mathrm{~N} / \mathrm{mm} 2$ | ISO 527 |  |
| Notched bar impact test | $4 \ldots 20 \mathrm{~kJ} / \mathrm{m} 2$ | ISO 180/1C |  |


| Thermal properties: | Value: | Test parameters: |  |
| :--- | :--- | ---: | ---: |
| Continuous application temperature | $-50 \ldots+105^{\circ} \mathrm{C}$ |  | PMA DO 9.21-4510 |
| Upper application temperature | $+120^{\circ} \mathrm{C}$ | $\left(20^{\prime} 000 \mathrm{~h}\right)$ | PMA DO 9.21-4360 |
| Short-term | $+160^{\circ} \mathrm{C}$ | $(168 \mathrm{~h})$ | PMA DO 9.21-4360 |


| Fire safety properties: | Value: | Test parameters: | Test method: |
| :--- | :--- | ---: | ---: |
| Fire performance | non flame-propagating |  | IEC EN 61386-1 |
| Flame class | V2 | UL 94 |  |

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## Content of delivery:

- Fitting


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Assembly instructions:

- When mounting, push-in conduit completely and then pull back slightly to ensure the locking mechanism is fully engaged
- To Disasembly: reopen with screwdriver and tiwst for easy release
- Please consider the appropriate assembly instructions on www.pma.ch


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