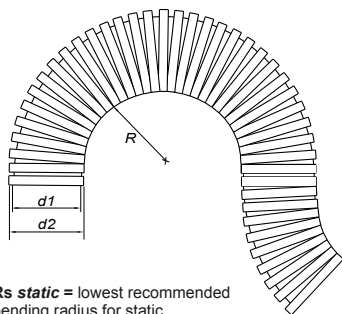


PME has excellent mechanical and flexibility characteristics and is designed for any installation with medium to high flexibility requirements. This versatile conduit / tubing is recommended for a wide variety of applications and uses including General Machine, Marine Engines, Hospital and Dental Equipment, Solar Panel Arrays, and Mechanical Wire & Cable Protection solutions.

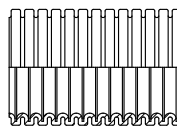


- High-grade, specially formulated polyamide 6
- Halogens and cadmium free
- Good weather and UV resistance
- Good mechanical strength (compression / impact)
- Self-extinguishing
- Good temperature resistance
- Temperature range: -40°C(-40°F) to 105°C(221°F)
- Short-term to 160°C(320°F)

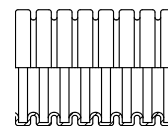


**Rs static** = lowest recommended bending radius for static (fixed) installation.

|                                       |  |
|---------------------------------------|--|
| PROFILE                               | NW   |
| <b>PME-FK12.50</b>                    |  |
| T <small>Y</small> P <small>E</small> | C <small>O</small> L <small>O</small> U <small>R</small> |
|                                       | P <small>U</small>                                       |



Fine Profile **F**  
Tight bend radius

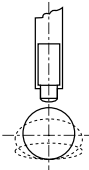
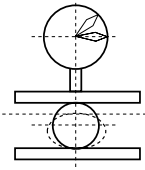
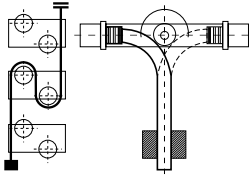
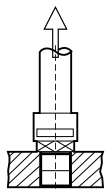


Coarse Profile **C**  
High pull-out strength

Specifications are subject to change without notice

**PME**

| Order No.   | Conduit Size |     | Trade Size |      | d1   |       | d2   |       | Rs Static |    | PU    |  |
|-------------|--------------|-----|------------|------|------|-------|------|-------|-----------|----|-------|--|
|             | NW           | mm  | in         | mm   | in   | mm    | in   | mm    | in        | m  | ft    |  |
| PME-FK07.50 | 7            | 10  | 1/4        | 6.2  | 0.24 | 10.0  | 0.39 | 15.0  | 0.59      | 50 | 164.0 |  |
| PME-FK10.50 | 10           | 12  | 5/16       | 9.6  | 0.38 | 13.0  | 0.51 | 20.0  | 0.79      | 50 | 164.0 |  |
| PME-FK12.50 | 12           | 16  | 3/8        | 12.0 | 0.47 | 15.8  | 0.62 | 30.0  | 1.18      | 50 | 164.0 |  |
| PME-FK17.50 | 17           | 20  | 1/2        | 16.2 | 0.64 | 21.2  | 0.83 | 40.0  | 1.57      | 50 | 164.0 |  |
| PME-FK23.50 | 23           | 25  | 3/4        | 22.6 | 0.89 | 28.5  | 1.12 | 45.0  | 1.77      | 50 | 164.0 |  |
| PME-FK29.50 | 29           | 32  | 1          | 29.0 | 1.14 | 34.5  | 1.36 | 55.0  | 2.17      | 50 | 164.0 |  |
| PME-FK36.30 | 36           | 40  | 1-1/4      | 36.5 | 1.44 | 42.5  | 1.67 | 60.0  | 2.36      | 30 | 98.4  |  |
| PME-FK48.30 | 48           | 50  | 1-1/2      | 48.5 | 1.91 | 54.5  | 2.15 | 70.0  | 2.76      | 30 | 98.4  |  |
| PME-CK56.30 | 56           | 68  | 2          | 56.3 | 2.22 | 67.2  | 2.65 | 130.0 | 5.12      | 30 | 98.4  |  |
| PME-CK70.10 | 70           | 80  | 2-1/2-3    | 67.5 | 2.66 | 80.0  | 3.15 | 160.0 | 6.30      | 10 | 32.8  |  |
| PME-CK95.10 | 95           | 106 | 3-1/2-4    | 91.5 | 3.60 | 106.0 | 4.17 | 210.0 | 8.27      | 10 | 32.8  |  |

| MECHANICAL CHARACTERISTICS  | STANDARD REFERENCE | METHOD OF TESTING   |  | VALUES            |                        |                      | UNIT           |
|---|--------------------|---|--|-------------------|------------------------|----------------------|----------------|
| Impact Strength   | IEC EN 61386       | <p>The Conduit is impacted with a spherical object weighing 2 kg and having a 300 mm radius. The height of the drop is equal to 1.2 meters.</p> |   | > 1/ [2] (-45°C)  |                        |                      | J / Class      |
|   |                    |   |  | > 2/ [3] (-15°C)  |                        |                      | J / Class      |
|   |                    |   |  | > 6/ [4] (23°C)   |                        |                      | J / Class      |
| Compression Strength  | 20% / 2 min.       | <p>The Conduit is compressed with a 100 mm steel plate for a period of time, reducing the conduit diameter by 25%.</p>                          |   | Compression Force | Under Load Deformation | Deformation Residual | N / Class      |
| <i>Tested with conduit:</i>   |                    |   |  |                   |                        |                      |                |
| PME-FK12.50   | Internal Method    |   |  | ≥ 130 N           | 2.4 mm                 | 3%                   | N 50x50 mm     |
| PME-FK29.50   |                    |   |  | ≥ 160 N           | 5.8 mm                 | 1%                   | N 50x50 mm     |
| PME-FK48.30   |                    | ≥ 100 N   | 9.6 mm   | 2%                | N 50x50 mm             |                      |                |
| Fatigue Strength  | 23°C / 50% r.h.    | <p>The Conduit is continuously subjected to horizontal and vertical movements. The full movements are counted.</p>                              |  | ≥ 100,000.00      |                        |                      | Cycles at 23°C |
|   | Internal Method    |   |  |                   |                        |                      |                |
| Pull-Out Strength   | 23°C / 50% r.h.    | <p>The Conduit with the respective connector is subjected to increasing pull-out strength until test uncouples.</p>                             |  | Pulling Force     | Residual Elongation    | N / Class            |                |
| <i>Tested with Grip Lock Fitting:</i>                                     |                    |   |  |                   |                        |                      |                |
| IP68 K8-M-S-12P11 NW12  |                    |   |  | Internal Method   | ≥ 190 N                |                      | 2%             |
| IP66 K6-M-S-17N02 NW17  |                    |   |  |                   | ≥ 290 N                |                      | 4%             |
| IP68 K8-M-S-29P29 NW29  |                    |   |  |                   | ≥ 490 N                |                      | 4%             |
| IP68 K8-M-S-48P48 NW48  | ≥ 820 N            | 4%  |  |                   |                        |                      |                |
| THERMAL CHARACTERISTICS   |                    | VALUES  |  |                   | UNIT                   |                      |                |
| Operating Temperature   |                    | -40°C to +105°C   |  |                   | Celsius                |                      |                |
| Short Period of time  |                    | 110°C   | 20,000 hours   |                   |                        |                      |                |
|   |                    | 140°C   | 168 hours  |                   |                        |                      |                |
| FIRE CHARACTERISTICS  |                    | STANDARD REFERENCE  |  | VALUES            | UNIT                   |                      |                |
| Oxygen Index  |                    | EN ISO 4589-1   |  | ≥ 25              | %                      |                      |                |
| Halogens Contents   |                    | DIN 53474   |  | FREE              |                        |                      |                |
| Flame Class   |                    | UL94  |  | HB                |                        |                      |                |
| Self-Extinguishing  |                    | IEC EN 61386  |  | YES               |                        |                      |                |
| Glowing Flammability Index  |                    | EN 60695-2-10   |  | 850°C             | Celsius                |                      |                |
| WEATHERING RESISTANCE   |                    | STANDARD REFERENCE  |  | VALUES            |                        |                      |                |
| Weathering UV/ Rain Cycle   |                    |   |  | GOOD              |                        |                      |                |
| UV Aging  |                    | ISO 4892 -2   |  | ≥ 2,000 hours     |                        |                      |                |
| CHEMICAL PROPERTIES   |                    |   |  | VALUES            |                        |                      |                |
| Resistance against fuel, mineral based oils, grease, alkalis & weak acids |                    |   |  | GOOD              |                        |                      |                |
| ENVIRONMENTAL PROPERTIES  |                    | STANDARD REFERENCE  |  | VALUES            |                        |                      |                |
| ROHS Compliant  |                    | EU Directive 2002 / 95 / EC   |  | YES               |                        |                      |                |
| Recyclable  |                    |   |  | YES               |                        |                      |                |