

# QMR

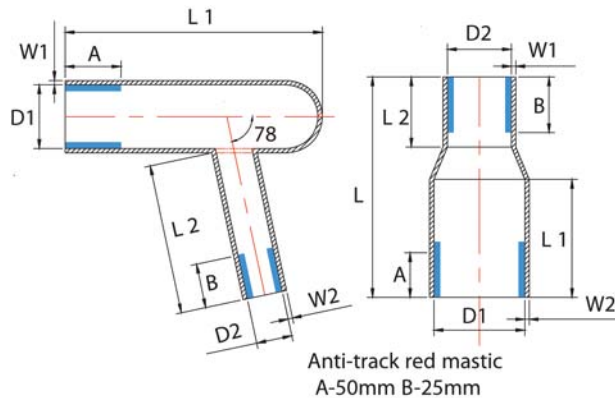
RoHS  
Compliant

**MEDIUM VOLTAGE RIGHT ANGLE / STRAIGHT BOOT  
UP TO 36kV**

## Features/Applications

The medium voltage right angle boots and straight boots are made from radiation cross-linked polyolefin. With the specially designed formulation, the boots are excellent electrical insulators and have great anti-tracking, UV resistant, weather proof and flame retardant properties. It can be safely used in protecting cable ends up to 36kV against flashover or surges induced while working in switchgear and transformer boxes.

- Operating temperature: -55°C to +100°C
- Minimum shrink temperature: 110°C
- Minimum full recovery temperature: 130°C
- RoHS Compliant



## Technical Data

| Property                                                  | Test Method | Typical Data          |
|-----------------------------------------------------------|-------------|-----------------------|
| Tensile Strength                                          | ASTM D 2671 | ≥12 MPa min.          |
| Elongation at Break                                       | ASTM D 2671 | ≥300% min.            |
| Tensile Strength After Thermal Aging (120°C, 168 hrs.)    | ASTM D 2671 | ≥8.5 MPa              |
| Elongation at Break After Thermal Aging (120°C, 168 hrs.) | ASTM D 2671 | ≥200%                 |
| Dielectric Strength                                       | IEC 243     | ≥15kV/mm              |
| Tracking Resistance (3.75KV, 1hr.)                        | ASTM D 2303 | Pass                  |
| Water Absorption                                          | ISO 62      | 1% max.               |
| Volume Resistance                                         | IEC 93      | 10 <sup>13</sup> Ω.cm |
| Flammability (Oxygen Index)                               | IEC 93      | ≥25                   |
| Copper Corrosion (120°C, 168 hrs.)                        | ASTM D 2671 | No corrosion          |
| Cold Bend (-40°C, 4 hrs.)                                 | ASTM D 2671 | No cracking           |

## Product Dimensions

| Part Number           | Type        | As Supplied (mm) |           | After Recovered (mm) |           |            |            |           |            |            |
|-----------------------|-------------|------------------|-----------|----------------------|-----------|------------|------------|-----------|------------|------------|
|                       |             | D1 (Min.)        | D2 (Min.) | D1 (Max.)            | D2 (Max.) | L1 (± 10%) | L2 (± 10%) | L (± 10%) | W1 (± 10%) | W2 (± 10%) |
| QMR110 (80/36-35/18)  | Right Angle | 80               | 35        | 36                   | 18        | 170        | 125        | -         | 4.2        | 3.5        |
| QMR120 (80/36-50/18)  | Right Angle | 80               | 50        | 36                   | 18        | 170        | 125        | -         | 3.8        | 3.5        |
| QMR130 (80/36-50/27)  | Right Angle | 80               | 50        | 36                   | 27        | 160        | 140        | -         | 3.8        | 3.5        |
| QMR140 (95/38-70/28)  | Right Angle | 95               | 70        | 38                   | 28        | 160        | 140        | -         | 4.2        | 4.8        |
| QMR150 (145/72-68/34) | Right Angle | 145              | 68        | 72                   | 34        | 215        | 140        | -         | 4.0        | 4.0        |
| QMR160 (80/35-34/20)  | Straight    | 80               | 34        | 35                   | 20        | 145        | 30         | 220       | 3.2        | 3.2        |
| QMR170 (80/35-58/20)  | Straight    | 80               | 58        | 35                   | 20        | 145        | 30         | 220       | 3.2        | 3.2        |
| QMR180 (140/65-90/33) | Straight    | 140              | 90        | 65                   | 33        | 155        | 40         | 320       | 4.0        | 4.0        |