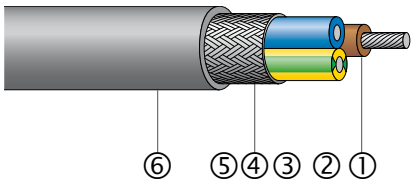
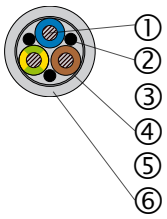
# RADOX® 155

## Multi core cable – screened




- excellent high and low temperature and ozone resistance
- weatherproof
- flame retardant
- soldering resistant
- flexible
- easy to strip

### Application

Permanent installation indoor and outdoor for the connection of fixed and loose parts.

### Composition of cable

| | | |
|---|---|---|
| ① | Core: | |
| | Conductor | stranded tin plated copper, acc. to EN 60228, class 5 |
| | Insulation | RADOX® 155<br>extruded and electron beam crosslinked polyolefin copolymer |
| | Core colours | 2 up to 5 core acc. to CENELEC HD 308 (see page 139)<br>6 core and more: black numbered with yellow/green earthing<br>other colours on request |
| ② | Fillers (optional) | RADOX® 125 |
| ③ | Separator (optional) | plastic tape |
| ④ | Screen | copper braid, optical coverage: ≥ 85 % |
| ⑤ | Separator (optional) | plastic tape |
| ⑥ | Sheath | RADOX® 155<br>extruded and electron beam crosslinked polyolefin copolymer |
| | Colour | black |

### Technical data

| | | |
|---|---|---|
| Voltage rating $U_o/U$ | ≤ 16 x 0.50 mm² | 450/750 V AC |
| Test voltage | ≤ 16 x 0.50 mm² | 2500 V AC |
| Voltage rating $U_o/U$ | > 16 x 0.50 mm² | 600/1000 V AC |
| Test voltage | > 16 x 0.50 mm² | 3500 V AC |
| Temperature range | fixed | -55 °C up to +155 °C |
| Min. operating temperature | flexible | -40 °C |
| Max. conductor temperature | at short circuit (max. 5s) | +280 °C |
| Min. bending radius | fixed | 4 x cable-dia. |
| | flexible | 5 x cable-dia. |

### Fire tests

| | | |
|---|---|---|
| Flame propagation: | | |
| Verical of a single cable | EN 50265-2-1, IEC 60332-1 | |
| Vertical of bunched cables | DIN EN 50266-2-5 | Category D |

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### Extract from our delivery programme

| Cross section | Conductor | | | Core | Screen | Cable | Weight |
|---|---|---|---|---|---|---|---|
| n x mm² | Construction nom. n x mm dia. | dia. max. mm | $R_{20}$ IEC 60228 max. Ω/km | dia. mm | dia. mm | dia. mm | nom. kg/100 m |
| 2 x 0.25 | 19 x 0.12 | 0.61 | 88.5 | 1.45 ± 0.05 | 3.35 | 5.1 ± 0.3 | 3.43 |
| 6 x 0.25 | 19 x 0.12 | 0.61 | 88.5 | 1.45 ± 0.05 | 5.07 | 6.95 ± 0.15 | 6.71 |
| 4x2x0.25 | 19 x 0.12 | 0.61 | 88.5 | 1.45 ± 0.05 | 11.2 | 14.0 ± 0.4 | 27.7 |
| 4 x 0.5 | 19 x 0.18 | 0.9 | 40.1 | 1.71 ± 0.10 | 5.55 | 7.6 ± 0.15 | 7.62 |
| 16 x 0.5 | 19 x 0.18 | 0.9 | 40.1 | 1.71 ± 0.10 | 9.0 | 11.6 ± 0.4 | 20.3 |
| 3 G 1.5 | 30 x 0.25 | 1.61 | 13.3 | 2.73 ± 0.10 | 6.6 | 8.7 ± 0.3 | 11.6 |
| 10 G 1.5 | 30 x 0.25 | 1.61 | 13.3 | 2.73 ± 0.10 | 11.9 | 14.7 ± 0.4 | 33.2 |
| 26 G 1.5 | 30 x 0.25 | 1.61 | 13.3 | 2.73 ± 0.10 | 18.0 | 22.0 ± 0.5 | 74.1 |
| 8 G 2.5 | 50 x 0.25 | 2.06 | 8.6 | 3.5 ± 0.10 | 14.5 | 17.9 ± 0.5 | 49.8 |
| 9 G 2.5 | 50 x 0.25 | 2.06 | 8.6 | 3.5 ± 0.10 | 15.1 | 18.6 ± 0.5 | 51.8 |

Other cross sections on request.