



Technical Data-Sheet

Issue: 11/96

[elumeg - Stranded hook-up wire 155 - M](#)

Thermal Class F (155° C)

Halogen free

| | |
|------------------|---|
| Conductor | : Stranded E-Copper, tin coated |
| Insulation | : 1 layer Mica tape |
| | : 2 layers Polyester film, wound in opposing directions |
| Braid | : Polyester fibre |
| Varnish | : Polyurethane |
| Standard colours | : white |
| | with tracer thread on inquiry |
| Standard winding | : Coils, alternatively on reels (also on KTG) |

Mechanical properties

| | |
|---|------------------------------------|
| Hot pressure test (155° C/4h - DIN VDE 0472 part 609) | : ca. 20% |
| Temperature range | : - 40 ... 155° C |
| Bending radius | : $r \geq 4 \times$ Outer diameter |

Electrical properties

| | |
|---|---|
| Insulation resistance (DIN VDE 0472 part 502 test method D) | : $\geq 200 \text{ M}\Omega \times \text{km}$ |
| Test voltage (DIN VDE 0472 part 509 test method B) | : 4,0 kV (Sinus/50Hz/2 min) |
| Operating voltage | : max. 800 V |

Dimensions

| Nom. Cross-section [mm ²] | Number and dimensions of single wires | Outside \varnothing nominal [mm] | Tolerance [mm] | Weight of copper [kg/km] | Conductor resist- ance max. at 20° C [Ω /km] |
|--|--|--|-------------------|--------------------------------|--|
| 35,00 | 280 x 0,40 mm | 10,4 | $\pm 0,30$ | 350,0 | 0,529 |
| 50,00 | 399 x 0,40 mm | 12,4 | $\pm 0,30$ | 500,0 | 0,369 |

The specifications are guidelines and do not release from suitability tests for intended purpose.

The construction of this cable has been developed together with ASEA (now ABB). The cable should resist a short-time operation voltage of 1500 Volt, and this requirement has been satisfied. All tests have been conducted by ASEA.

ABB are using the dimensions 35,00 and 50,00 mm². Outside diameters of other dimensions can only be stipulated after an eventual production.