

Technical Data-Sheet

Issue: 02/24

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

Thermal Class F (155°C)

Halogenfree

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)	:	approx. 20%
Temperature range	:	- 40 ... 155° C
Bending radius	:	$r \geq 4 \times$ Außendurchmesser

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 / 50 Hz / 2 min)
Operating voltage	:	max. 800 V

Dimensions

Cross-section (nom.) [mm ²]	Dimension [mm]	Outer diameter [mm]	Tolerance [mm]	Copper weight [kg/km]	max. Conductor resistance 20°C [Ω/km]
35,0	280 x 0,40	10,40	± 0,30	350,0	0,529
50,0	399 x 0,40	12,40	± 0,30	500,0	0,369

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 uses dimensions 35,0 and 50,0 mm². Outer diameters of other dimensions can only be defined after production.