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Technical Data-Sheet

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e l u m e g - Stranded hook-up wire 155-U - UL

Thermal Class F (155° C), halogen and silicon free, adverse to flame

UL-Style-No. 5169, File-No. E251657

Conductor	:	Stranded E-Copper, bare or tin coated
Base cover	:	0,25 ... 2,50 mm² Acetate fibre 4,00 ... 10,00 mm² without Base cover
Insulation	:	1 layer Glimmer film 1 layer Aramid paper NOMEX®, wound in opposing directions
Braid	:	Polyester fibre
Varnish	:	Polyurethane
Standard colours	:	0,25 ... 6,00 mm² white or white with tracer threads red, black, blue, yellow, green, brown, violet or single coloured sizes 10,00 mm² and above plain white (tracer threats on inquiry)
Standard winding	:	0,25 ... 1,50 mm² - 200 m coils 2,50 ... 4,00 mm² - 100 m coils 6,00 ... 35,00 mm² - 50 m coils 50,00 ... 95,00 mm² - 25 m coils

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Mechanical properties

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

Electrical properties

Insulation resistance (DIN VDE 0472 part 502 test method D)	:	≥ 200 MΩ × 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 [mm²]	Number and dimensions of single wires	Outside ∅ nominal [mm]	Tolerance [mm]	Weight of copper [kg/km]	Conductor resistance max. at 20° C [Ω/km]
0,25	14 x 0,15 mm	1,8	+ 0,20	2,5	75,5
0,37	12 x 0,20 mm	1,9	+ 0,20	3,7	50,0
0,50	16 x 0,20 mm	2,0	+ 0,20	5,0	37,1
0,75	24 x 0,20 mm	2,3	+ 0,20	7,5	24,8
1,00	32 x 0,20 mm	2,5	+ 0,20	10,0	18,5
1,50	30 x 0,25 mm	2,8	+ 0,20	15,0	12,7
2,50	50 x 0,25 mm	3,1	+ 0,20	25,0	7,60
4,00	56 x 0,30 mm	4,0	±0,15	40,0	4,73
6,00	84 x 0,30 mm	4,9	±0,20	60,0	3,14
10,0	80 x 0,40 mm	5,8	±0,20	100,0	1,84
16,0	126 x 0,40 mm	7,0	±0,20	160,0	1,16
25,0	196 x 0,40 mm	8,5	±0,25	250,0	0,743
35,0	280 x 0,40 mm	10,2	±0,25	350,0	0,529
50,0	399 x 0,40 mm	11,7	±0,30	500,0	0,369
70,0	560 x 0,40 mm	14,0	±0,40	700,0	0,260
95,0	483 x 0,50 mm	16,0	±0,40	950,0	0,203

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