

Technical Data-Sheet

Issue: 02/24

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

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

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

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

Mechanical properties

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

Electrical properties

Insulation resistance (DIN VDE 0472 part 502 test method D)	:	≥ 200 MΩ x 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]
0,25	14 x 0,15	1,80	+ 0,20	2,5	75,50
0,37	12 x 0,20	1,90	+ 0,20	3,7	50,00
0,50	16 x 0,20	2,00	+ 0,20	5,0	37,10
0,75	24 x 0,20	2,30	+ 0,20	7,5	24,80
1,00	32 x 0,20	2,50	+ 0,20	10,0	18,50
1,50	30 x 0,25	2,80	+ 0,20	15,0	12,70
2,50	50 x 0,25	3,10	+ 0,20	25,0	7,60
4,00	56 x 0,30	4,00	± 0,15	40,0	4,73
6,00	84 x 0,30	4,90	± 0,20	60,0	3,14
10,00	80 x 0,40	5,80	± 0,20	100,0	1,84
16,00	126 x 0,40	7,00	± 0,20	160,0	1,16
25,00	196 x 0,40	8,50	± 0,25	250,0	0,74
35,00	280 x 0,40	10,20	± 0,25	350,0	0,53
50,00	399 x 0,40	11,70	± 0,30	500,0	0,37
70,00	560 x 0,40	14,00	± 0,40	700,0	0,26
95,00	483 x 0,50	16,00	± 0,40	950,0	0,20