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## Technical Data-Sheet

Issue: 08/02

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### [e l u m e g - Stranded hook-up wire 130 - S](#)

#### Thermal Class B (130° C)

Halogen and silicon free

Conductor	:	Stranded E-Copper, bare or tin coated
Base cover	:	Acetate fibre
Insulation	:	1 layer Polyester film 1 layer synthetic silk, wound in opposing directions
Varnish	:	Polyurethane
Standard colours	:	white, red, black, blue, yellow, green, brown, violet extra marking with coloured spiral is possible
Standard winding	:	Coils, reels or barrels Ø 300 mm

#### Mechanical properties

Hot pressure test (130° C/4h - DIN VDE 0472 part 609)	:	ca. 20%
Temperature range	:	- 20 ... 130° C
Bending radius	0,14 ... 1,50 mm <sup>2</sup>	: r ≥ 1 x Outer diameter
	2,50 mm <sup>2</sup>	: r ≥ 2 x Outer diameter

#### Electrical properties

Insulation resistance (DIN VDE 0472 part 502 test method D)	:	≥ 100 MΩ × km
Test voltage (DIN VDE 0472 part 509 test method B)	:	2,5 kV (Sinus/50Hz/2 min)
Operating voltage	:	max. 600 V

#### Dimensions

Nom. Cross-section [mm <sup>2</sup> ]	Number and dimensions of single wires	Outside Ø nominal [mm]	Tolerance [mm]	Weight of copper [kg/km]	Conductor resist- ance max. at 20° C [Ω/km]
0,14	18 x 0,10 mm	1,10	±0,10	1,4	132,0
0,25	14 x 0,15 mm	1,30	±0,10	2,5	75,5
0,37	12 x 0,20 mm	1,50	±0,10	3,7	50,0
0,50	16 x 0,20 mm	1,65	±0,10	5,0	37,1
0,75	24 x 0,20 mm	1,85	±0,10	7,5	24,8
1,00	32 x 0,20 mm	2,00	±0,10	10,0	18,5
1,50	30 x 0,25 mm	2,30	±0,15	15,0	12,7
2,50	50 x 0,25 mm	2,90	±0,15	25,0	7,6