

HELUTHERM® 600 / 600-ES halogen-free / high-grade steel braiding



Technical data

- Special core insulation for high temperatures
- **Temperature range** -60°C to +600°C
- **Permissible temperature** +400°C to +600°C (up to +600°C for short time)
- **Nominal voltage** 500 V
- **Test voltage** 2500 V
- **Minimum bending radius** approx. 5x cable Ø

Cable construction

- HELUTHERM® 600**
- Multiple wire nickel plated copper conductor (ASTM B 355)
 - Double-insulated glass-fibre braiding, impregnated with silicone
 - Braiding of special mineral fibres and additional impregnation with silicone
 - Sheath colour auburn
- HELUTHERM® 600-ES**
- As per above
 - Additional braided high-grade steel, coverage approx. 80%

Properties

- Asbestos and cadmium-free

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

HELUTHERM® 600 cables are used in applications where extremely high connecting and ambient temperatures occur, e.g. in iron and steel works, rolling mills, foundries, glass and ceramic plants, in power construction as well as for wiring resistances in electrical heating equipment, furnaces and in thermoplastic forming. Good characteristics in the presence of moisture and chemical effects.

HELUTHERM® 600-ES

The robust braiding of high-grade steel protects the cable from aggressive atmospheres and mechanical stresses. The high-grade braiding also gives this cable an attractive appearance. The braided screen can also be used for earthing purposes.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

HELUTHERM 600

Part No.	No. cores x cross-sec. mm ²	Conductor construction	Outer Ø ca. mm	Linear resistance at 20°C Ohm / km	Maximum permissible current carrying capacity at +400°C (A)	Weight ca. kg / km	AWG-No.
51703	1 x 0,25	4 x 0,3	2,0	346,0	1,5	9,5	24
51704	1 x 0,5	7 x 0,3	2,3	175,0	2,5	11,5	20
51705	1 x 0,75	11 x 0,3	2,6	115,0	4,5	15,0	18
51706	1 x 1	14 x 0,3	2,8	88,0	5,5	17,8	17
51707	1 x 1,5	21 x 0,3	3,2	59,0	7,0	24,0	16
51708	1 x 2,5	35 x 0,3	3,7	35,0	10,0	36,0	14
51709	1 x 4	56 x 0,3	4,5	22,0	13,5	54,5	12
51710	1 x 6	84 x 0,3	6,0	14,6	16,0	77,0	10
51711	1 x 10	140 x 0,3	8,0	8,8	21,0	150,0	8
51712	1 x 16	228 x 0,3	9,1	5,5	28,0	225,0	6
51713	1 x 25	354 x 0,3	10,8	3,5	36,0	340,0	4
51714	1 x 35	495 x 0,3	13,0	2,5	58,0	440,0	2
51715	1 x 50	707 x 0,3	13,5	1,5	70,0	600,0	1

HELUTHERM 600-ES

Part No.	No. cores x cross-sec. mm ²	Conductor construction	Outer Ø ca. mm	Linear resistance at 20°C Ohm / km	Maximum permissible current carrying capacity at +400°C (A)	Weight ca. kg / km	AWG-No.
50475	1 x 0,5	7 x 0,3	3,2	175,0	2,5	21,0	20
50476	1 x 0,75	11 x 0,3	3,5	115,0	4,5	29,0	18
50477	1 x 1	14 x 0,3	3,7	88,0	5,5	38,0	17
50478	1 x 1,5	21 x 0,3	4,1	59,0	7,0	44,0	16
50479	1 x 2,5	35 x 0,3	4,6	35,0	10,0	56,0	14
50480	1 x 4	56 x 0,3	5,4	22,0	13,5	78,0	12
50481	1 x 6	84 x 0,3	6,9	14,6	16,0	112,0	10
50482	1 x 10	140 x 0,3	8,9	8,8	21,0	198,0	8
50483	1 x 16	228 x 0,3	10,0	5,5	28,0	281,0	6
50484	1 x 25	354 x 0,3	11,7	3,5	36,0	410,0	4
50485	1 x 35	495 x 0,3	15,1	2,5	58,0	536,0	2
50486	1 x 50	707 x 0,3	15,6	1,5	70,0	697,0	1

Dimensions and specifications may be changed without prior notice.