

HELUTHERM® 400



Single core, nickel conductor, stranded, for high temperature applications



TECHNICAL DATA

Single core

Temperature range	fixed -60°C to +400°C
Nominal voltage	AC U ₀ /U 300/500 V
Test voltage (spark test)	2000 V
Minimum bending radius	flexible 15x Outer-Ø fixed 7.5x Outer-Ø

CABLE STRUCTURE

- Ni conductor, stranded
- Core insulation: glass silk braid with heat-resistant impregnation
- Core identification by coloured helix, see table

PROPERTIES

- halogen-free

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1

APPLICATION

Single core with a wide temperature range; especially suited for use in the aviation and aerospace industry, in power stations, in engine design as well as in chemical, steel and metallurgical plants. For critical applications, for example involving mechanical stress, we recommend to contact us.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- At temperatures above 200°C during the first commissioning, the impregnating varnish may degrade and leave only pure glass fibers remaining as insulation. This can be observed as evaporation.

Cross-sec. mm ²	Outer-Ø min - max mm	AWG, approx.	Ni-weight kg/km	black Part no.	green-yellow Part no.	blue Part no.	brown Part no.	red Part no.	white Part no.	grey Part no.	violet Part no.	yellow Part no.
0.5	2.1 - 2.6	20	4.8	50901	50900	50902	50903	50904	50905	50906	50907	50908
0.75	2.2 - 2.9	19	7.2	50915	50914	50916	50917	50918	50919	50920	50921	50922
1	2.5 - 3.0	18	9.6	50929	50928	50930	50931	50932	50933	50934	50935	50936
1.5	2.6 - 3.4	16	14.4	50943	50942	50944	50945	50946	50947	50948	50949	50950
2.5	3.3 - 4.3	14	24.0	50957	50956	50958	50959	50960	50961	50962	50963	50964
4	4.2 - 4.8	12	38.0	50971	50970	50972	50973	50974	50975	50976	50977	50978
6	5.0 - 6.3	10	58.0	50985	50984	50986	50987	50988	50989	50990	50991	50992
10	5.6 - 6.8	8	96.0	50890	50209	50891	50892	50893	50894	50895	50896	50897
16	7.8 - 8.4	6	154.0	51564	51563	51565	51566	51567	51568	51569	51570	51571
25	9.6 - 10.4	4	240.0	51578	51577	51579	51580	51581	51582	51583	51584	51585

Cross-sec. mm ²	Outer-Ø min - max mm	AWG, approx.	Ni-weight kg/km	orange Part no.	pink Part no.	beige Part no.
0.5	2.1 - 2.6	20	4.8	50909	50911	50912
0.75	2.2 - 2.9	19	7.2	50923	50925	50926
1	2.5 - 3.0	18	9.6	50937	50939	50940
1.5	2.6 - 3.4	16	14.4	50951	50953	50954
2.5	3.3 - 4.3	14	24.0	50965	50967	50968
4	4.2 - 4.8	12	38.0	50979	50981	50982
6	5.0 - 6.3	10	58.0	50993	50995	50996
10	5.6 - 6.8	8	96.0	50898	51560	51561
16	7.8 - 8.4	6	154.0	51572	51574	51575
25	9.6 - 10.4	4	240.0	51586	51588	51589