

HELUTHERM® 400

Insulation class C, halogen-free



Technical data

- Special core insulation mono or multi coloured
- **Temperature range**
-60°C to +400°C
operating temperature
(up to +450°C for short time)
- **Nominal voltage**
500 V
- **Test voltage**
2000 V
- **Minimum bending radius**
15x outer Ø
- **Radiation resistance**
up to 1x10¹⁰ cJ/kg (up to 1x10⁴ Mrad)

Cable structure

- Stranded nickel conductor
- Overlapping with special heat-resistant impregnation
- Colour identification through helix (colour see table)

Properties

- These cables have very good electronic, chemical and radiation resistant properties

Note

- Also available with additional Kapton film at extra cost.
- 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.

Application

The wide temperature range offered by this cable type makes it especially suited for use in the aviation and aerospace industries, for atomic power stations and in the steel making and chemical industries. For the critical applications, for example mechanical stress, we advise for consultation.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Cross-sec. mm ²	Conductor construction	Outer Ø app. mm	Nickel weight kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	YE	PK	OG	BEIGE	TRANS	2-col.
Part no. 0,5	16 x 0,2	2,2	4,8	50901	50900	50902	50903	50904	50905	50906	50907	50908	50911	50909	50912	50910	50913
Part no. 0,75	24 x 0,2	2,4	7,2	50915	50914	50916	50917	50918	50919	50920	50921	50922	50925	50923	50926	50924	50927
Part no. 1	32 x 0,2	2,7	9,6	50929	50928	50930	50931	50932	50933	50934	50935	50936	50939	50937	50940	50938	50941
Part no. 1,5	30 x 0,25	2,8	14,4	50943	50942	50944	50945	50946	50947	50948	50949	50950	50953	50951	50954	50952	50955
Part no. 2,5	50 x 0,25	3,4	24,0	50957	50956	50958	50959	50960	50961	50962	50963	50964	50967	50965	50968	50966	50969
Part no. 4	56 x 0,3	4,5	38,0	50971	50970	50972	50973	50974	50975	50976	50977	50978	50981	50979	50982	50980	50983
Part no. 6	84 x 0,3	4,9	58,0	50985	50984	50986	50987	50988	50989	50990	50991	50992	50995	50993	50996	50994	50997
Part no. 10	141 x 0,3	5,8	96,0	50890	50209	50891	50892	50893	50894	50895	50896	50897	51560	50898	51561	51559	51562
Part no. 16	226 x 0,3	7,4	154,0	51564	51563	51565	51566	51567	51568	51569	51570	51571	51574	51572	51575	51573	51576
Part no. 25	196 x 0,4	9,6	240,0	51578	51577	51579	51580	51581	51582	51583	51584	51585	51588	51586	51589	51587	51590
Part no. 35	276 x 0,4	11,5	336,0	51592	51591	51593	51594	51595	51596	51597	51598	51599	51602	51600	51603	51601	51604
Part no. 50	396 x 0,4	12,7	480,0	51606	51605	51607	51608	51609	51610	51611	51612	51613	51616	51614	51617	51615	51618
Part no. 70	360 x 0,5	16,0	672,0	51620	51619	51621	51622	51623	51624	51625	51626	51627	51630	51628	51631	51629	51632
Part no. 95	485 x 0,5	18,0	912,0	51634	51633	51635	51636	51637	51638	51639	51640	51641	51644	51642	51645	51643	51646
Part no. 120	608 x 0,5	19,0	1152,0	51648	51647	51649	51650	51651	51652	51653	51654	51655	51658	51656	51659	51657	51660
Part no. 150	756 x 0,5	22,0	1440,0	51662	51661	51663	51664	51665	51666	51667	51668	51669	51672	51670	51673	51671	51674
Part no. 185	944 x 0,5	24,0	1776,0	51676	51675	51677	51678	51679	51680	51681	51682	51683	51686	51684	51687	51685	51688
Part no. 240	1222 x 0,5	27,0	2304,0	51690	51689	51691	51692	51693	51694	51695	51696	51697	51700	51698	51701	51699	51702

Dimensions and specifications may be changed without prior notice. (RK01)