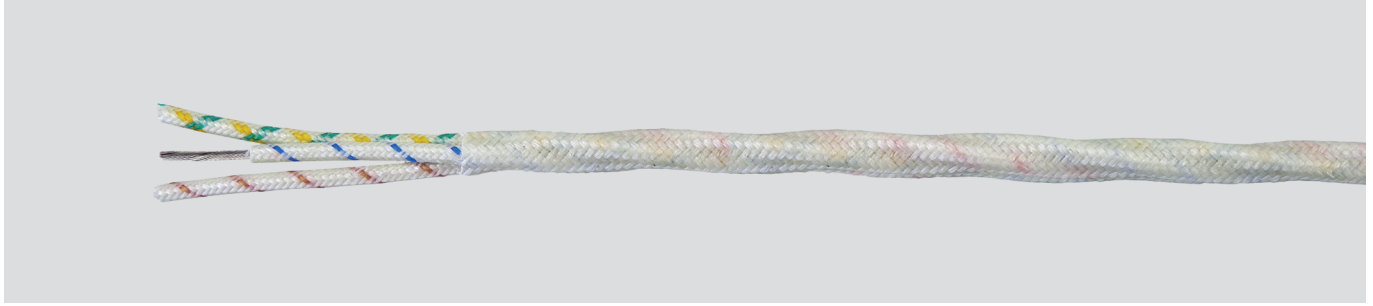


MULTITHERM 400

halogen-free



Technical data

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

Cable structure

- Copper-conductor nickel plated, fine wire (ASTM B 355)
- 1. Core insulation of braided glass-fibre impregnated with silicone
- 2. Core insulation of braided glass-fibre impregnated with silicone
- Core identification
 - No. of cores with GN-YE conductor
 - 3 = GN-YE, BU, BN
 - 4 = GN-YE, BK, BU, BN
 - 5 = GN-YE, BK, BU, BN, WH
 - 6 = GN-YE, BK, BU, BN, WH, RD
 - 7 = GN-YE, BK, BU, BN, WH, RD, GY
 - No. of cores without GN-YE conductor
 - 2 = BU, BN
 - 3 = BK, BU, BN
 - 4 = BK, BU, BN, WH
 - 5 = BK, BU, BN, WH, RD
 - 6 = BK, BU, BN, WH, RD, GY
 - 7 = BK, BU, BN, WH, RD, GY, GN
- Overall lay up of cores
- Outer sheath of braided glass-fibre impregnated with silicone

Properties

- Asbestos and cadmium-free

Note

- Further sizes are available on request.
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- Screened analogue type: **MULTITHERM 400-ES**
- 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

MULTITHERM 400 cables are used for applications where extremely high connecting and ambient temperatures can arise, e. g. in iron and steel works, rolling mills, foundries, glass and ceramic factories, in furnace and power plant construction, during thermoplastic moulding processes etc. The special construction of the cable is designed for a recommended maximum temperature in damp environments of 220°C and for dry environments above this temperature.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Max. perm. current carrying capacity at +340°C (A)	Weight app. kg / km	AWG-No.
51741	2 x 0,5	6,2	10,0	3,3	47,0	20
51742	3 x 0,5	6,4	15,0	3,1	50,0	20
51743	4 x 0,5	7,5	19,0	3,0	70,0	20
51744	5 x 0,5	8,0	25,0	2,9	81,0	20
51745	6 x 0,5	8,6	30,0	2,8	97,0	20
51746	7 x 0,5	8,7	34,0	2,7	105,0	20
51747	2 x 0,75	6,7	14,4	5,1	55,0	19
51748	3 x 0,75	7,0	21,6	5,1	66,0	19
51749	4 x 0,75	8,0	29,0	4,9	86,0	19
51750	5 x 0,75	8,8	36,0	4,7	103,0	19
51751	6 x 0,75	9,5	43,0	4,5	119,0	19
51752	7 x 0,75	9,7	50,0	4,4	130,0	19
51753	2 x 1	6,9	19,0	7,0	63,0	18
51754	3 x 1	7,8	29,0	6,7	82,0	18
51755	4 x 1	8,3	38,0	6,4	98,0	18
51756	5 x 1	9,1	48,0	6,2	119,0	18
51757	6 x 1	9,8	58,0	6,0	138,0	18
51758	7 x 1	10,0	67,0	5,8	150,0	18
51759	2 x 1,5	8,0	29,0	9,4	87,0	16
51760	3 x 1,5	8,3	43,0	9,0	103,0	16

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Max. perm. current carrying capacity at +340°C (A)	Weight app. kg / km	AWG-No.
51761	4 x 1,5	9,1	58,0	8,6	128,0	16
51762	5 x 1,5	10,0	72,0	8,3	150,0	16
51763	6 x 1,5	10,7	88,0	8,0	175,0	16
51764	7 x 1,5	11,0	101,0	7,8	190,0	16
51765	2 x 2,5	9,2	48,0	12,2	135,0	14
51766	3 x 2,5	9,7	72,0	11,6	153,0	14
51767	4 x 2,5	10,6	96,0	11,2	190,0	14
50060	5 x 2,5	11,8	120,0	10,8	230,0	14
50061	6 x 2,5	12,8	144,0	10,4	270,0	14
50062	7 x 2,5	13,0	168,0	10,1	295,0	14
50063	2 x 4	11,0	77,0	16,0	191,0	12
50064	3 x 4	11,4	115,0	15,3	224,0	12
50065	4 x 4	13,0	154,0	14,6	285,0	12
50066	5 x 4	14,5	192,0	14,1	360,0	12
50067	7 x 4	16,5	270,0	13,3	485,0	12
50068	3 x 6	14,2	173,0	20,0	340,0	10
50069	4 x 6	16,2	230,0	19,0	442,0	10
50070	5 x 6	17,7	288,0	18,0	535,0	10
50071	4 x 10	20,0	384,0	26,0	710,0	8
50072	4 x 16	24,5	615,0	34,0	990,0	6

Dimensions and specifications may be changed without prior notice. (RE01)