

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**, confer page 236

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= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Max. permitt. current carrying capacity at +340°C (A)	Weight approx. 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
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)



Suitable accessories can be found in Chapter X.

- Cable protection tube - HTP