

# MULTITHERM® 400 halogen-free



MULTITHERM 400

CE



## Technical data

- Special Cu-nickel silicone-insulated cable with enhanced heat resistance
- **Temperature range**  
-60°C to +400°C  
(up to +500°C for short time)
- **Nominal voltage** 500 V
- **Test voltage** 2500 V
- **Minimum bending radius**  
approx. 5x cable Ø

## Cable construction

- Cu wires, finely stranded, nickel plated (ASTM B 355)
- Core insulation of braided glass-fibre impregnated with silicone
- Second core insulation of glass-fibre braiding impregnated with silicone
- Overall lay up of cores
- Core identification according to colour coding listed below
- Common outer sheath of glass-fibre braiding impregnated with silicone
- Sheath colour grey

## Properties

- **Asbestos** and **cadmium-free**
- **Colour code**

- No. of cores **with** protective earth conductor  
3 = gn-ye/bl/bn  
4 = gn-ye/bk/bl/bn  
5 = gn-ye/bk/bl/bn/wh  
6 = gn-ye/bk/bl/bn/wh/rd  
7 = gn-ye/bk/bl/bn/wh/rd/gy
- No. of cores **without** protective earth conductor  
2 = bl/bn  
3 = bk/bl/bn  
4 = bk/bl/bn/wh  
5 = bk/bl/bn/wh/rd  
6 = bk/bl/bn/wh/rd/gy  
7 = bk/bl/bn/wh/rd/gy/gn

## Note

- Please enquire for further configurations and core cross sections for your requirements.
- We supply customised cables for temperature ranges up to approx. 1600°C. Please enquire for minimum ordering quantities and delivery times.

## 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 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Maximum permissible current carrying capacity at +340°C (A)	Weight ca. 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	18
51748	3 x 0,75	7,0	21,6	5,1	66,0	18
51749	4 x 0,75	8,0	29,0	4,9	86,0	18
51750	5 x 0,75	8,8	36,0	4,7	103,0	18
51751	6 x 0,75	9,5	43,0	4,5	119,0	18
51752	7 x 0,75	9,7	50,0	4,4	130,0	18
51753	2 x 1	6,9	19,0	7,0	63,0	17
51754	3 x 1	7,8	29,0	6,7	82,0	17
51755	4 x 1	8,3	38,0	6,4	98,0	17
51756	5 x 1	9,1	48,0	6,2	119,0	17
51757	6 x 1	9,8	58,0	6,0	138,0	17
51758	7 x 1	10,0	67,0	5,8	150,0	17
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

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Maximum permissible current carrying capacity at +340°C (A)	Weight ca. kg / km	AWG-No.
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.