



## Technical data

- Special PVC cable with increased heat-resistance
- Adapted to DIN VDE 0281 part 12 0,5-0,75 mm<sup>2</sup> according IEC 60227/56 1,0-2,5 mm<sup>2</sup> according IEC 60227/57
- **Temperature range**  
flexing -5°C to 105°C  
fixed installation -30°C to +105°C (up to +120°C for short time)
- **Nominal voltage**  
0,5-1 mm<sup>2</sup>: U<sub>0</sub>/U 300/500 V  
1,5 mm<sup>2</sup> and above: U<sub>0</sub>/U 450/750 V
- **Spark-test** 6000 V
- **Test voltage** 2000 V
- **Breakdown voltage** min. 4000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable construction

- Bare copper conductors to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation, T13 to DIN VDE 0281 part 1
- Core identification to DIN VDE 0293-308
- Core colours  
up to 5 cores one-coloured  
6 and more cores, black with numbering
- 3 and above, with green-yellow earth core
- 2 cores without green-yellow earth core
- Cores stranded in layers with optimal lay-length
- Special PVC outer jacket, heat-resistant TM3 to DIN VDE 0281 part 1
- Outer jacket black (RAL 9005), other colours on request

## Properties

- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- On request  
HELUTHERM® 120 H03V2V2-F  
HELUTHERM® 120 H05V2V2-F  
HELUTHERM® 120 (H)05V2V2-F

## Application

Therm cables are ideal for use in machines, appliances or motors which are subject to direct contact with high temperatures (e.g. varnishing machines and drying towers etc.).

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. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
24002	2 x 0,5	5,0	9,6	40,0	20
24003	3 G 0,5	5,3	14,4	50,0	20
24004	4 G 0,5	5,8	19,2	60,0	20
24005	5 G 0,5	6,7	24,0	70,0	20
24006	7 G 0,5	8,8	33,6	90,0	20
24007	12 G 0,5	11,1	58,0	140,0	20
24008	18 G 0,5	12,9	86,0	170,0	20
24009	25 G 0,5	15,8	101,0	250,0	20
24011	2 x 0,75	6,2	14,4	52,0	18
24012	3 G 0,75	6,6	21,6	61,0	18
24013	4 G 0,75	7,1	29,0	75,0	18
24014	5 G 0,75	8,0	36,0	94,0	18
24015	7 G 0,75	9,5	50,0	112,0	18
24016	12 G 0,75	11,6	86,0	180,0	18
24017	18 G 0,75	13,9	130,0	270,0	18
24018	25 G 0,75	16,9	180,0	380,0	18
24019	1 x 1	6,0	9,6	50,0	17
24020	2 x 1	6,5	19,2	60,0	17
24021	3 G 1	6,9	29,0	73,0	17
24022	4 G 1	7,7	38,0	88,0	17
24023	5 G 1	8,4	48,0	110,0	17
24024	6 G 1	9,3	58,0	121,0	17
24025	7 G 1	10,0	67,0	130,0	17
24026	12 G 1	12,5	115,0	223,0	17
24027	18 G 1	14,7	173,0	350,0	17
24028	25 G 1	17,8	240,0	485,0	17
24030	2 x 1,5	7,4	29,0	77,0	16
24031	3 G 1,5	8,1	43,0	97,0	16
24032	4 G 1,5	9,0	58,0	122,0	16
24033	5 G 1,5	10,0	72,0	143,0	16
24034	7 G 1,5	11,9	101,0	179,0	16
24035	12 G 1,5	14,5	173,0	310,0	16
24036	18 G 1,5	17,4	259,0	460,0	16
24037	25 G 1,5	21,3	360,0	650,0	16
24039	2 x 2,5	9,3	48,0	120,0	14
24046	3 G 2,5	10,1	72,0	150,0	14
24040	4 G 2,5	11,0	96,0	200,0	14
24041	5 G 2,5	12,3	120,0	250,0	14
24042	7 G 2,5	14,6	168,0	310,0	14
24044	2 x 4	10,6	77,0	180,0	12
24291	3 G 4	11,5	115,0	220,0	12
24045	4 G 4	12,5	154,0	300,0	12
24292	5 G 4	15,1	192,0	360,0	12

Dimensions and specifications may be changed without prior notice.