

HELUTHERM® 120 flexible, heat-resistant (+105°C), meter marking



Technical data

- Special PVC cable with increased heat-resistance adapted to DIN VDE 0285-525-2-11 / DIN EN 50525-2-11
0,5-0,75 mm² acc. to IEC 60227/56
1,0-2,5 mm² acc. to IEC 60227/57
- **Temperature range**
flexing -5°C to +105°C
fixed installation -30°C to +105°C (for short time +120°C)
- **Nominal voltage**
0,5-1 mm² U₀/U 300/500 V
from 1,5 mm² U₀/U 450/750 V
- **Spark-test** 6000 V
- **Test voltage** 2000 V
- **Breakdown voltage** min. 4000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type T13 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293-308
- up to 5 cores coloured
- from 6 cores, black with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC, heat-resistant compound type TM3 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Outer sheath black (RAL 9005), also available in other colours on request
- with meter marking

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with green-yellow conductor
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- 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.). For application in dry, moist and wet rooms and in open air.

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	Weight approx. 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	19
24012	3 G 0,75	6,6	21,6	61,0	19
24013	4 G 0,75	7,1	29,0	75,0	19
24014	5 G 0,75	8,0	36,0	94,0	19
24015	7 G 0,75	9,5	50,0	112,0	19
24016	12 G 0,75	11,6	86,0	180,0	19
24017	18 G 0,75	13,9	130,0	270,0	19
24018	25 G 0,75	16,9	180,0	380,0	19
24019	1 x 1	6,0	9,6	50,0	18
24020	2 x 1	6,5	19,2	60,0	18
24021	3 G 1	6,9	29,0	73,0	18
24022	4 G 1	7,7	38,0	88,0	18
24023	5 G 1	8,4	48,0	110,0	18
24024	6 G 1	9,3	58,0	121,0	18
24025	7 G 1	10,0	67,0	130,0	18
24026	12 G 1	12,5	115,0	223,0	18
24027	18 G 1	14,7	173,0	350,0	18
24028	25 G 1	17,8	240,0	485,0	18

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
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. (RE01)