



Technical data

- Special PVC single core with increased heat-resistance. H05V2-K / H07V2-K to 90 °C according to DIN VDE 0281 part 7 and HD 21.7 S2
- **Temperature range**
H05V2-K / H07V2-K
flexing + 5 °C to + 90 °C
fixed installation - 40 °C to + 90 °C
short circuit allowable temperature + 160 °C
- **Nominal voltage**
H05V2-K: U_o/U 300/500 V
H07V2-K: U_o/U 450/750 V
- **Test voltage** 10 kV
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
approx. 10-15x core ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Plain copper conductors to DIN VDE 0295, cl. 5. DIN EN 60228
- Wire marking according to DIN VDE 0281-1, (HD 21.1) numbered according to DIN VDE 0293
- Special heat-resistant core insulation up to +90 °C. Heat-resistant TI3 to DIN VDE 0281 part 1 (HD 21.1).

Properties

- Heat-resistant special PVC compound
- Not to be used in contact with objects higher than 85 °C
- PVC self-extinguishing and flame retardant according to DIN EN 60332-1-2
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Application

Therm insulated wires are ideal for use in power current installation, switch cabinets, motors and transformers which are subject to direct contact with high temperatures (e.g. varnishing machines and drying towers etc.). These are also suitable for inside wiring of electrical equipments such as lighting and heating apparatus. (UV exposure should be avoided).

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



Coil in cardboard (100m)

Coil in foil (100m)

Drum

Article	Cross-sec. mm ²	Core ø	Cop. Weight kg / km	Weight approx. kg / km
H05V2-K				
3090005xx	0,50	2,2	4,8	9
3090007xx	0,75	2,3	7,2	11
3090010xx	1,00	2,5	9,6	13
H07V2-K				
3090015xx	1,50	3,0	14,4	19
3090025xx	2,50	3,6	24,0	30
3090040xx	4	4,3	38,4	45
3090060xx	6	4,8	58,0	63
3090100xx	10	6,3	96,0	110
3090160xx	16	7,4	154,0	165
3090250xx	25	9,1	240,0	255
3090350xx	35	10,3	336,0	345
3090500xx	50	12,7	480,0	490
3090700xx	70	15,6	672,0	684
3090950xx	95	16,7	912,0	927
3091200xx	120	18,5	1115,0	1139
3091500xx	150	20,4	1440,0	1468
3091850xx	185	22,8	1776,0	1804
3092400xx	240	26,0	2304,0	2342

Note

- Please complete the part number for these cables by adding the suffix for the colour required as per the list:
01 = black, RAL 9005
02 = green/yellow, RAL 6018/1021
03 = blue, RAL 5015
04 = brown, RAL 8003
05 = red, RAL 3000
06 = white, RAL 1013
07 = grey, RAL 7000
08 = violet, RAL 4005
09 = yellow, RAL 1021
10 = pink, RAL 3015
11 = green, RAL 6018
12 = transparent
13 = dark-blue, RAL 5010
14 = orange, RAL 2003
Other colors on request

usual delivery design: 100 m coil in cardboard box (up to 6 mm²), coil in foil (as of 10 mm²) or drum (as of 35 mm²).

Dimensions and specifications may be changed without prior notice. (RK01)