

# LiYW / H05 V2-K PVC-Single Cores, 90°C, heat-resistant



## Technical data

- Special PVC single core with increased heat-resistance LiYW up to 105 °C adapted to DIN VDE 0281 H05 V2-K to 90 °C according to DIN VDE 0281 part 7 and HD 21.7 S2
- **Temperature range**  
LiYW  
flexing +5 °C to +105 °C  
fixed installation -10 °C to +105 °C  
H05 V2-K  
flexing +5 °C to + 90 °C
- **Nominal voltage**  
LiYW: U<sub>0</sub>/U 300/500 V  
H05 V2-K: U<sub>0</sub>/U 300/500 V
- **Test voltage** 2000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
approx. 10-15x core ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable structure

- Plain copper conductors to DIN VDE 0295, cl. 5, IEC 60228 cl. 5, BS 6360 cl. 5 and HD 383 (0,5 mm<sup>2</sup> and above)  
for 0,14 mm<sup>2</sup> = 18x0,1 mm  
0,25 mm<sup>2</sup> = 14x0,15 mm
- Special heat-resistant core insulation LiYW up to +105 °C adapted to DIN VDE 0207  
H05 V2-K up to +90 °C, core insulation heat-resistant T13 to DIN VDE 0281 part 7
- Cores colour coded or on request numbered according to DIN VDE 0293

## Properties

- Heat-resistant special PVC compound of selected stabilizer and plasticizer
- All requirements and test methods conform DIN VDE 0281 part 7, deviates however the maximal permissible operating temperature up to +105 °C for LiYW
- Not to be used in contact with objects higher than 85 °C
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ 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

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## 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.

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

### LiYW 105°C

Cross-sec. mm <sup>2</sup>	Core Ø mm	Cop. weight kg / km	Weight approx. kg / km	black	gn-ye	blue	brown	red	white	grey	vio	dk-bu
Part no. 0,14	22,0	1,4	3,2	29500	29501	29502	29503	29504	29505	29506	29507	29508
Part no. 0,25	16,0	2,4	4,3	29509	29510	29511	29512	29513	29514	29515	29516	29517
Part no. 0,5	19,0	4,8	7,2	29518	29519	29520	29521	29522	29523	29524	29525	29526

### H05 V2-K 90°C

Cross-sec. mm <sup>2</sup>	Core Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No. black	AWG-No. gn-ye	AWG-No. blue	AWG-No. brown	AWG-No. red	AWG-No. white	AWG-No. grey	AWG-No. vio	AWG-No. dk-bu
Part no. 0,5	2,1 - 2,5	4,8	8,7	29942	29943	29944	29945	29946	29947	29948	29949	29950
Part no. 0,75	2,2 - 2,7	7,2	11,9	29951	29952	29953	29954	29955	29956	29957	29958	29959
Part no. 1	2,4 - 2,8	9,6	14,0	29960	29961	29962	29963	29964	29965	29966	29967	29968

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