



Technical data

- Special PVC single core with increased heat-resistance
LiYW up to 105°C adapted to DIN VDE 0285-525-1/DIN EN 50525-1
H05V2-K to 90°C acc. to DIN VDE 0285-525-2-31/DIN EN 50525-2-31
- **Temperature range**
LiYW
 flexing +5°C to +105°C
 fixed installation -10°C to +105°C
H05V2-K
 flexing +5°C to +90°C
- **max. Temperatur** at conductor under permanent load +90°C
- **Nominal voltage**
LiYW U₀/U 300/500 V
H05V2-K U₀/U 300/500 V
- **Test voltage** 2000 V
- **Insulation resistance**
 min. 20 MOhm x km
- **Minimum bending radius**
 fixed installation 4x core Ø
- **Radiation resistance**
 up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, from 0,5 mm² to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Wire make-up for:
 0,14 mm² = 18x0,1 mm
 0,25 mm² = 14x0,15 mm
- **LiYW** special core insulation up to +105°C heat-resistant, adapted to DIN VDE 0207
H05V2-K core insulation up to +90°C heat-resistant, compound type T13 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification see table below

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
 - Heat-resistant special PVC compound of selected stabilizer and plasticizer
 - Not to be used in contact with objects higher than 85°C
- ### Tests
- All requirements and test methods conform DIN VDE 0285-525-2-31, DIN EN 50525-2-31, deviates however the maximal permissible operating temperature up to +105°C for LiYW
 - 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)

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/EC.

LiYW 105°C

Cross-section mm ²	Outer Ø mm	Cop. weight kg / km	Weight app. kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	D-BU
Part no. 0,14	1,3	1,4	3,2	29500	29501	29502	29503	29504	29505	29506	29507	29508
Part no. 0,25	1,8	2,4	4,3	29509	29510	29511	29512	29513	29514	29515	29516	29517
Part no. 0,5	2,6	4,8	7,2	29518	29519	29520	29521	29522	29523	29524	29525	29526

H05V2-K 90°C

Cross-section mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No. BK	AWG-No. GN-YE	AWG-No. BU	AWG-No. BN	AWG-No. RD	AWG-No. WH	AWG-No. GY	AWG-No. VT	AWG-No. D-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)