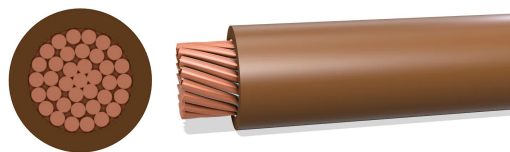


Application

H05V-K is the flexible single-core PVC-insulated wire to EN 50525-2-31 (HD 21.3 / IEC 60227-3) for 300/500 V internal wiring of appliances, luminaires, control panels and distribution boards. It consists of a single fine-stranded class 5 copper conductor insulated with PVC; there is no outer sheath. H05V-K is the lower-voltage, small-size companion to H07V-K (450/750 V) and is made in the fine cross-sections up to 1 mm²; from 1.5 mm² upward the 450/750 V H07V-K type is used. The PVC insulation is colour-coded to HD 308 S2, including green/yellow for protective conductors.



CONSTRUCTION

Conductor	Flexible fine-wire strand of plain annealed copper, class 5 acc. to IEC 60228.
Insulation	Polyvinyl chloride (PVC), type T11.
Core identification	Single colour per HD 308 S2: green/yellow, blue, brown, black, grey, red, white, and further colours on request.
Sheath	None (single-core insulated wire).

ELECTRICAL & THERMAL PROPERTIES

Rated voltage U₀/U	300/500 V.
Test voltage	2 kV AC.
Standard	EN 50525-2-31 (HD 21.3 S3 / IEC 60227-3); conductor acc. to IEC 60228, class 5.
Reaction to fire (CPR)	Class Eca acc. to EN 50575.
Flame-retardant	Acc. to IEC 60332-1-2.
Max. conductor temperature	+70 °C (short circuit +160 °C, max. 5 s).
Permitted ambient temperature, fixed	-15 °C to +70 °C.
Min. bending radius, fixed	4 × overall diameter (single core).

DIMENSIONS & TECHNICAL DATA

Nominal c.s.a. (mm ²)	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
0.5	39	2.1	8
0.75	26	2.3	11
1	19.5	2.5	13

Outer diameters and weights are nominal values of the leading reference source; conductor resistances are the IEC 60228 class 5 maxima at 20 °C. H05V-K covers the small cross-sections up to 1 mm²; larger sizes are supplied as H07V-K. All values are indicative and non-binding.