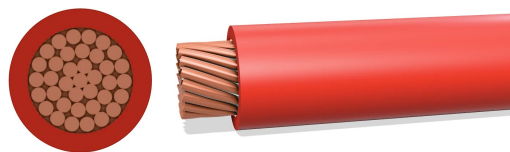


Application

H05V2-K is a harmonised single-core, non-sheathed wire with a fine-stranded plain copper conductor (class 5) and a heat-resistant PVC insulation for a maximum conductor temperature of 90 °C, rated 300/500 V and manufactured in accordance with EN 50525-2-31. It is intended for the internal wiring of electrical equipment such as luminaires, heating appliances, switchgear and control panels, motors and transformers, where the ambient temperature exceeds the limits of ordinary 70 °C PVC wires, and for protected fixed installation in conduit, trunking or closed installation ducts. The wire is available in the cross-sections 0.5, 0.75 and 1.0 mm² in a wide range of colours. It is not intended for outdoor use, direct burial or continuous flexing service, and exposure to UV radiation should be avoided.



CONSTRUCTION

Conductor	Fine-stranded plain annealed copper, class 5 acc. to IEC 60228 / EN 60228.
Insulation	Heat-resistant PVC compound type TI3 acc. to EN 50363-3; no outer sheath (non-sheathed core).
Core colours	Black, blue, brown, grey, white, red, orange, violet, yellow, green, pink, dark blue, green/yellow; other colours and bicoloured versions on request.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage U₀/U	300/500 V.
Test voltage	2,000 V AC.
Standard	EN 50525-2-31 (HD 21.7); insulation compound acc. to EN 50363-3; conductors acc. to IEC 60228 / EN 60228.
Flame-retardant	Acc. to EN 60332-1-2 / IEC 60332-1-2.
Conductor standard	IEC 60228 / EN 60228, class 5 (flexible).
Max. conductor temperature	+90 °C (max. +160 °C for 5 s in short circuit).
Permitted outer cable temperature, fixed	-5 °C to +90 °C (min. +5 °C during installation).
Permitted outer cable temperature, moved	+5 °C to +90 °C (occasional movement only; not for continuous flexing service).
Min. bending radius, fixed	6 × outer diameter.
Reaction to fire (CPR)	Eca (EN 50575).

DIMENSIONS & TECHNICAL DATA			
Size (mm ²)	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
0.5	39	2.2	9
0.75	26	2.3	11
1	19.5	2.5	14

Outer diameters, weights and conductor resistance are the nominal manufacturer values of the leading reference source (class-5 plain copper conductor); all values are indicative and non-binding.