

APPLICATION

Single core insulated conductor, without sheath, for general purposes, and rated voltages up to 300/500 V. Suitable for installation in surface mounted or embedded conduits, only for signalling or control circuits. Recommended fixed protected installation inside appliances and in, or on, lighting fittings.

CABLE DESIGNATION

Cu / PVC: H05V-U · H05V-R · H05V-K

CONSTRUCTION CHARACTERISTICS

Conductor

Copper (plain annealed): Solid class 1: (H05V-U)
Stranded class 2: (H05V-R)

Insulation

PVC – (Polyvinyl chloride)
Flexible class 5: (H05V-K)

GENERAL CHARACTERISTICS

Construction and test standards	IEC 60228
	BS 6004
Rated voltage U_0/U	300/500 V
Test voltage	1500 V a.c. 5minutes
Conductor maximum operating temperature	70°C
Maximum short-circuit temperature	160°C ($t \leq 5s$)
Minimum bending radius (mm)	H05V-U (R) $4 \times d$
	H05V-K $3 \times d$
Maximum pulling force over conductor (N)	H05V-U (R) $50 \times S$
	H05V-K $15 \times S$
Flame retardant	IEC 60332-1-2 · EN 60332-1-2 (cable vertically mounted, length of charred cable ≤ 540 mm).

S – conductor cross-section (mm^2)

d – cable outer diameter (mm)

LOW VOLTAGE CABLES

GENERAL WIRING CABLES

H05V-U H05V-R H05V-K
Single Core Non-Sheathed · BS 6004

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Cable composition n.º cond. x cross-section (mm²)	Approximate outer diameter (mm)	Approximate weight (kg/km)	Current carrying capacity in open air T = 30° C 2 or 3 charged conductors (A)
H05V-U			
1 x 0.5	2.1	10	3
1 x 0.75	2.3	13	6
1 x 1	2.4	15	10
H05V-R			
1 x 0.5	2.2	10	3
1 x 0.75	2.4	13	6
1 x 1	2.6	15	10
H05V-K			
1 x 0.5	2.2	10	3
1 x 0.75	2.5	13	6
1 x 1	2.6	15	10