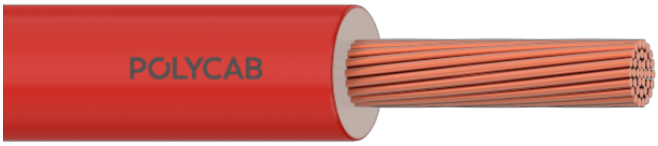
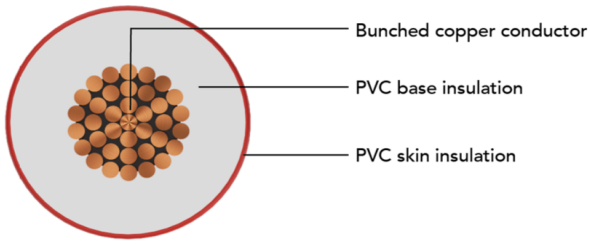
POLYCAB H05V2-K/H07V2-K BS EN 50525-2-31 SC
Industrial Cable, 300/500 V & 450/750 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB H05V2-K/H07V2-K single core non-sheathed thermoplastic insulated signal and control cable is suitable for power installation, domestic application, industrial appliances and equipment. This cable is used in exposed conduits, embedded conduits as well as closed installation duct.

CHARACTERISTICS

Voltage Rating
H05V2-K - 300/500 V
H07V2-K - 450/750 V

Operation Temperature
Fixed: -15°C to 90° C

CONSTRUCTION

- Annealed bunched copper conductor as per IEC 60228, class 5 or class 1
- Insulated with Polyvinyl Chloride Type TI 3 to EN 50363-3

Core Identification
Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise /Violet/White/Green/Yellow

Bending Radius
Fixed installation - 8 x Overall Diameter

Test Voltage
H05V2-K - 2000V AC at (20±5) °C
H07V2-K - 2500V AC at (20±5) °C

OUTSTANDING FEATURES

- Flexible
- Flame Retardant
- Good Insulation Resistance

STANDARD FOLLOWS

IEC 60228
BS EN 50363-3
BS EN 50525-2-31
IEC 60332-1-2

COMPLIANCE

Conductor resistance test - IEC 60228
Insulation resistance - EN 50525-2-31
Tests under fire condition - EN 60332-1-2
Flame retardant properties as per IEC 60332-1-2

OUR ACCREDITATIONS

NABL

APPROVAL

FQC CE

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Weight & Dimension Data

H05V2-K

Product Code	Nominal cross sectional area mm²	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CYUAYC001C0.5S	0.5	2.11	9
LDBS04CYUAYC001C.75S	0.75	2.32	11
LDBS04CYUAYC001C001S	1	2.49	14

H07V2-K

Product Code	Nominal cross sectional area mm²	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB DOWEL/GLAND SIZE
LDBS06CYUAYC001C1.5S	1.5	2.96	20	-
LDBS06CYUAYC001C2.5S	2.5	3.62	32	-
LDBS06CYUAYC001C004S	4	4.16	48	-
LDBS06CYUAYC001C006S	6	4.73	68	-
LDBS06CYUAYC001C010S	10	6.08	114	DBW - 01SS (UN)
LDBS06CYUAYC001C016S	16	7.12	171	DBW - 01SS (UN)
LDBS06CYUAYC001C025S	25	8.78	264	DBW - 01SS (UN)
LDBS06CYUAYC001C035S	35	9.98	361	DBW - 01SS (UN)

• DBW – Weatherproof series

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Electrical characteristics

Current carrying capacity and maximum DC conductor resistance

Nominal cross sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray etc horizontal or vertical etc.)			Reference Method G (in free air)		Maximum DC conductor resistance at 20°C
					Spaced by one cable diameter		Touching			Spaced by one cable diameter		
	2 cables, single-phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. or d.c. flat and touching	3 or 4 cables, three-phase a.c. flat and touching or trefoil	2 cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, single-phase a.c. or d.c. or 3 cables three-phase a.c. flat		
										Horizontal	Vertical	
mm²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
1	13	12	16	14	18	17	–	–	–	–	–	19.5
1.5	18	16	22	19	24	22	–	–	–	–	–	13.3
2.5	25	22	29	27	32	29	–	–	–	–	–	7.98
4	33	29	40	35	44	39	–	–	–	–	–	4.95
6	43	38	51	46	56	51	–	–	–	–	–	3.3
10	58	51	71	63	77	70	–	–	–	–	–	1.91
16	79	71	97	85	106	96	–	–	–	–	–	1.21
25	103	92	129	113	139	126	156	137	131	177	156	0.78
35	127	113	159	140	171	156	194	171	164	219	195	0.554

The ambient temperature is 30°C, Conductor operating temperature 90°C. The above table is in accordance with Table 4E1A of BS 7671:2018

De-Rating Factor

De-rating factor for 90°C thermoplastic insulated cable

Air Temperature	35°C to 50°C	55°C	60°C	65°C	70°C
De-Rating Factor	1	0.96	0.83	0.67	0.47