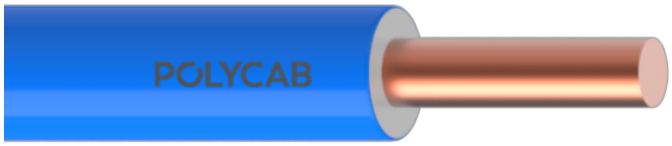
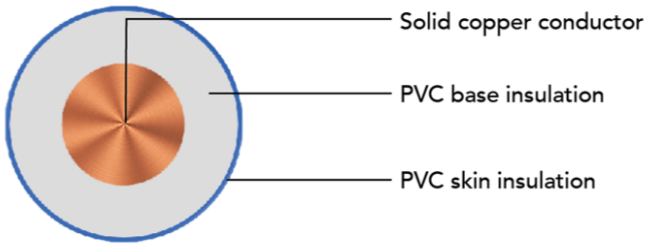
POLYCAB H07V-U/H07V-R BS EN 50525-2-31 SC
Industrial Cable, 450/750 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB H07V-U/H07V-R single core non-sheathed thermoplastic insulated Power and control cable is suitable for power and lighting circuits and building wire. This cable is used in exposed conduits, embedded conduits as well as closed installation duct.

CHARACTERISTICS

Voltage Rating
450 / 750 V

Operation Temperature
Fixed: -15°C to 70° C

CONSTRUCTION

- Annealed solid or stranded copper conductor of class 1 or class 2 as per IEC 60228,
- Insulated with Polyvinyl Chloride Type TI 1 to EN 50363-3

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

Bending Radius
Fixed installation - 8 x Overall Dia

Test Voltage
2500V AC at (20±5) °C

OUTSTANDING FEATURES

• 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

POLYCAB H07V-U/H07V-R BS EN 50525-2-31 SC
Industrial Cable, 450/750 V AC

Weight & Dimension Data

Product Code	Nominal cross sectional area mm²	Type of conductor mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/ DOWELL Gland Size
LDBS06CYUAYA001C001S	1	Solid	2.50	15	-
LDBS06CYUAYA001C1.5S	1.5	Solid	2.90	20	-
LDBS06CYUAYA001C1.5S	1.5	Stranded	3.00	21	-
LDBS06CYUAYA001C2.5S	2.5	Solid	3.55	31	-
LDBS06CYUAYA001C2.5S	2.5	Stranded	3.65	33	-
LDBS06CYUAYA001C004S	4	Stranded	4.20	48	-
LDBS06CYUAYA001C006S	6	Stranded	4.75	67	-
LDBS06CYUAYA001C010S	10	Stranded	6.15	112	DBW-01SS
LDBS06CYUAYA001C016S	16	Stranded	6.70	167	DBW-01SS
LDBS06CYUAYA001C025S	25	Stranded	8.90	261	DBW-01SS
LDBS06CYUAYA001C035S	35	Stranded	9.95	352	DBW-01SS
LDBS06CYUAYA001C050S	50	Stranded	11.70	476	DBW-01SS
LDBS06CYUAYA001C070S	70	Stranded	13.35	670	DBW-01S
LDBS06CYUAYA001C095S	95	Stranded	15.60	926	DBW-01S
LDBS06CYUAYA001C120S	120	Stranded	17.2	1154	DBW-01
LDBS06CYUAYA001C150S	150	Stranded	19.1	1425	DBW-02
LDBS06CYUAYA001C185S	185	Stranded	21.3	1782	DBW-03
LDBS06CYUAYA001C240S	240	Stranded	24.3	2331	DBW-04
LDBS06CYUAYA001C300S	300	Stranded	27.05	2915	DBW-05
LDBS06CYUAYA001C400S	400	Stranded	30.35	3713	DBW-06
LDBS06CYUAYA001C500S	500	Stranded	33.7	4749	DBW-07
LDBS06CYUAYA001C630S	630	Stranded	37.55	6073	DBW-08

• DBW – Weather proof Series

POLYCAB H07V-U/H07V-R BS EN 50525-2-31 SC
Industrial Cable, 450/750 V AC

Electrical Characteristics

Current carrying capacity and max. DC conductor resistance.

Nominal Cross Sectional Area	Current carrying Capacity				Reference Method F (in free air or on a perforated cable tray horizontal or vertical					Max. DC conductor resistance at 20°C
	Reference Method A (Enclosed in conduits in thermally insulating wall		Reference Method B (Enclosed in conduits on wall or trunking)		Touching			Spaced by one diameter		
	2 Cables Single Phase a.c	3 or Cables Three Phase a.c	2 Cables Single Phase a.c	3 or Cables Three Phase a.c	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	Ω/km
1	11	10.5	13.5	12	-	-	-	-	-	18.1
1.5	14.5	13.5	17.5	15.5	-	-	-	-	-	12.1
2.5	20	18	24	21	-	-	-	-	-	7.41
4	26	24	32	28	-	-	-	-	-	4.61
6	34	31	41	36	-	-	-	-	-	3.08
10	46	42	57	50	-	-	-	-	-	1.83
16	61	59	76	68	-	-	-	-	-	1.15
25	80	73	101	89	131	114	110	146	130	0.727
35	99	89	125	110	162	143	137	181	162	0.524
50	119	108	151	134	196	174	167	219	197	0.387
70	151	136	192	171	251	225	216	281	254	0.268
95	182	164	232	207	304	275	264	341	311	0.193
120	210	188	269	239	352	321	308	396	362	0.153
150	240	216	300	262	406	372	356	456	419	0.124
185	273	245	341	296	463	427	409	521	480	0.0991
240	321	286	400	346	546	507	485	615	569	0.0754
300	367	328	458	394	629	587	561	709	659	0.0601
400	-	-	546	467	754	689	656	852	795	0.047

500	-	-	626	533	868	789	749	982	920	0.0366
630	-	-	720	611	1005	905	855	1138	1070	0.0283

The ambient temperature is 30°C.
Conductor operating temperature 70°C.
The above table is in accordance with Table 4D1A of BS 7671:2018

De-Rating Factor

De-rating factor for 60°C thermoplastic insulated cable

Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41