

## Polycab, Singlecore Thermoplastic insulated unsheathed cable conforming to BS EN 50525-2-31 standard.



These are flexible cables with thermoplastic insulation non-sheathed for fixed wiring. This covers low voltage energy cable of voltage rating up to and including 450/750 V as per BS EN 50525-2-31.

These cables available in single core with maximum conductor operating temperature of 70°C & 90°C suitable to use in fixed installation with mechanical protection, within switch gear, control gear.

**Conductor:** High conductivity annealed solid or stranded or bunched copper conductor produced in-house from state-of-the art machine.

**Insulation:** In-house developed thermoplastic or heat resistant thermoplastic compound.

The construction based on the application and requirement of the user against BS EN 50525-2-31.



[POLYCAB H07V-K BS EN 50525-2-31 SC - Industrial Cable, 450/750 V AC](#)



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



[POLYCAB H07V-U/H07V-R BS EN 50525-2-31 SC - 450/750 V SC - Industrial Cable, 450/750 V AC](#)



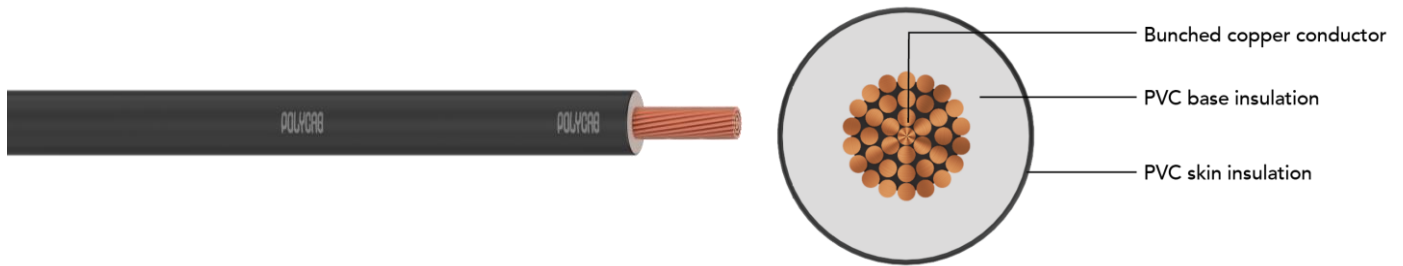
[POLYCAB H05V-U/H05V-R/H05V-K BS EN 50525-2-31 SC - Industrial Cable, 300/500 V AC](#)



[POLYCAB H05V2-U/H05V2-R/H07V2-U/H07V2-R BS EN 50525-2-31 SC - Industrial Cable, 300/500 V & 450/750 V AC](#)

# POLYCAB H05V-U/H05V-R/H05V-K BS EN 50525-2-31 SC

## Industrial Cable, 300/500 V AC



### Application

POLYCAB H05V-U/H05V-R/H05V-K single core non-sheathed thermoplastic insulated cable is suitable for power installation, domestic application, industrial appliances and equipment. These cables are used in exposed conduits, embedded conduits as well as closed installation duct.

### Voltage Rating

300/500 V

### Operation Temperature

Fixed: -15°C to 70°C

### Construction

- Annealed stranded or solid copper conductor as per IEC 60228, class 2 or class 1 or Class 5
- Insulated with Polyvinyl Chloride Type TI 1 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

### Standard and References:

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

### Test Voltage

2000V AC at (20±5) °C

### 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

### Approval



### OUR ACCREDITATION



## POLYCAB H05V-U/H05V-R/H05V-K BS EN 50525-2-31 SC

### Industrial Cable, 300/500 V AC

Product Code	Size of Conductor mm <sup>2</sup>	Class of conductor	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CYUAYA001C0.5S	0.5	1	2.2	11
LDBS04CYUAYA001C.755S	0.75	1	2.4	15
LDBS04CYUAYA001C001S	1	1	2.6	19
LDBS04CYUAYA001C0.5S	0.5	2	2.1	8
LDBS04CYUAYA001C.75S	0.75	2	2.31	11
LDBS04CYUAYA001C001S	1	2	2.46	14
LDBS04CYUAYA001C0.5S	0.5	5	2.11	9
LDBS04CYUAYA001C.75S	0.75	5	2.32	11
LDBS04CYUAYA001C001S	1	5	2.49	14

### Electrical Characteristics

Current carrying capacity and max. DC conductor resistance.

Nominal cross sectional area mm <sup>2</sup>	Current-carrying capacity		Maximum resistance of conductor at 20°C Ω/km
	Single-phase a.c. Amp.	Three-phase a.c. Amp.	
0.5	3	3	39
0.75	6	6	26
1	10	10	19.5

The ambient temperature is 30°C.

Conductor operating temperature 70°C.

The above table is in accordance with Table 4F3A of BS 7671:2018

### De-Rating Factor

De-rating factor for 70°C thermoplastic insulated cable

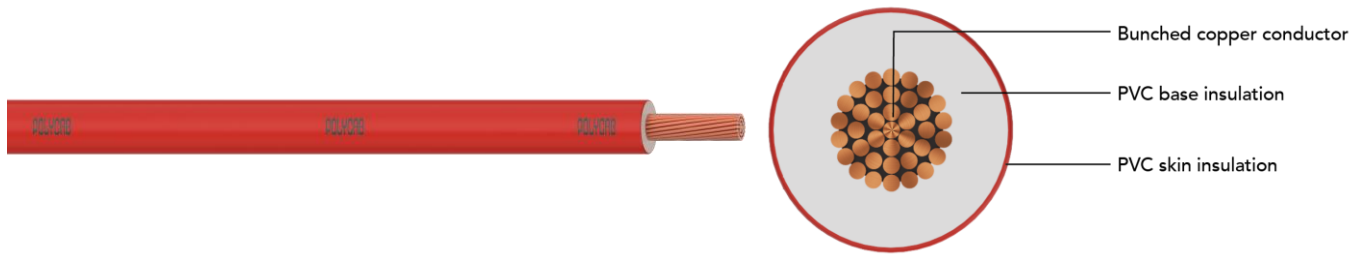
Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

#### OUR ACCREDITATION



## POLYCAB H05V2-K/H07V2-K BS EN 50525-2-31 SC

### Industrial Cable, 300/500 V & 450/750 V AC



#### 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.

#### 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

#### Standard and References:

IEC 60228

BS EN 50363-3

BS EN 50525-2-31

IEC 60332-1-2

#### Test Voltage

H05V2-K - 2000V AC at (20±5) °C

H07V2-K - 2500V AC at (20±5) °C

#### 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

Dimension table of H05V2-K

Product Code	Nominal cross sectional area mm <sup>2</sup>	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

#### OUR ACREDITATION



## POLYCAB H05V2-K/H07V2-K BS EN 50525-2-31 SC

### Industrial Cable, 300/500 V & 450/750 V AC

Dimension table of H07V2-K

Product Code	Nominal cross sectional area mm <sup>2</sup>	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

### Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm <sup>2</sup>	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 Ω/km
	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.	Spaced by one cable diameter		Touching			Spaced by one cable diameter		
					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	Horizontal	Vertical	
	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	
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

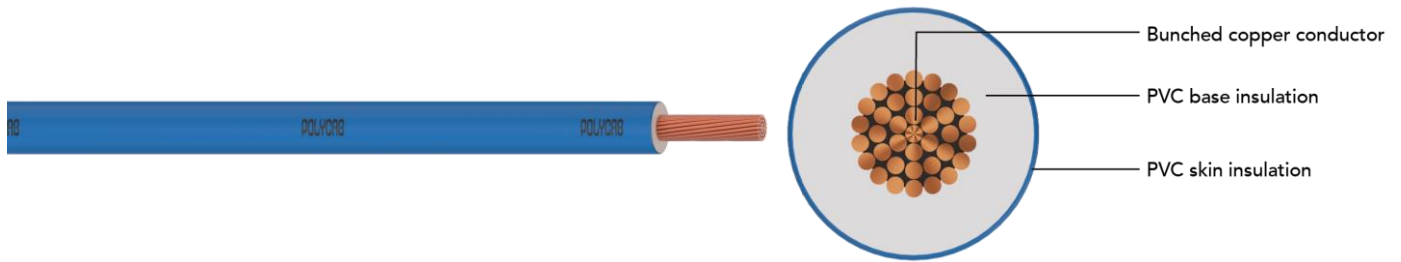
Air Temperature	35°C to 50°C	55°C	60°C	65°C	70°C
De-Rating Factor	1	0.96	0.83	0.67	0.47

### OUR ACCREDITATION



## POLYCAB H07V-K BS EN 50525-2-31 SC

### Industrial Cable, 450/750 V AC



#### Application

POLYCAB H07V-K single core non-sheathed thermoplastic insulated signal and control cable is suitable for power installation, domestic application, industrial appliances and equipment. These cables are used in exposed conduits, embedded conduits as well as closed installation duct.

#### Voltage Rating

450 / 750 V

#### Operation Temperature

Fixed: -15°C to 70° C

#### Construction

- Annealed stranded copper conductor as per IEC 60228, class 5
- 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.

#### Standard and References:

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

#### Test Voltage

2500V AC at (20±5) °C

#### 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

#### Approval



Product Code	Nominal cross sectional area mm <sup>2</sup>	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB DOWEL/GLAND SIZE
LDBS06CYUAYA001C1.5S	1.5	2.96	20	-
LDBS06CYUAYA001C2.5S	2.5	3.62	32	-
LDBS06CYUAYA001C004S	4	4.16	48	-
LDBS06CYUAYA001C006S	6	4.73	68	-
LDBS06CYUAYA001C010S	10	6.08	114	DBW - 01SS (UN)
LDBS06CYUAYA001C016S	16	7.12	171	DBW - 01SS (UN)
LDBS06CYUAYA001C025S	25	8.78	264	DBW - 01SS (UN)
LDBS06CYUAYA001C035S	35	9.98	361	DBW - 01SS (UN)
LDBS06CYUAYA001C050S	50	11.87	517	DBW - 01SS (UN)
LDBS06CYUAYA001C070S	70	13.55	710	DBW - 01S (UN)

#### OUR ACCREDITATION



## POLYCAB H07V-K BS EN 50525-2-31 SC

### Industrial Cable, 450/750 V AC

Product Code	Nominal cross sectional area mm <sup>2</sup>	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB DOWEL/GLAND SIZE
LDBS06CYUAYA001C095S	95	15.74	962	DBW - 01A (UN)
LDBS06CYUAYA001C120S	120	17.28	1198	DBW - 02 (UN)
LDBS06CYUAYA001C150S	150	19.21	1475	DBW - 02 (UN)
LDBS06CYUAYA001C185S	185	21.49	1851	DBW - 02 (UN)
LDBS06CYUAYA001C240S	240	24.23	2370	DBW - 04A (UN)

- DBW – Weather proof Series

### Electrical Characteristics

Current carrying capacity and max. DC conductor resistance.

Nominal cross sectional area mm <sup>2</sup>	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 horizontal or vertical etc.)					Maximum resistance of conductor at 20°C Ω/km	
	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	Touching			Spaced by one diameter			
							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
Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	
1.5	13.8	12.8	16.6	14.7	19	17	–	–	–	–	–	–	13.3
2.5	19	17	23	20	26	24	–	–	–	–	–	–	7.98
4	25	23	30	27	35	31	–	–	–	–	–	–	4.95
6	32	29	39	34	45	41	–	–	–	–	–	–	3.3
10	44	40	54	48	62	56	–	–	–	–	–	–	1.91
16	58	56	72	65	83	75	–	–	–	–	–	–	1.21
25	78	71	98	86	111	101	127	111	107	142	126	0.78	
35	96	86	121	107	137	125	157	139	133	176	157	0.554	
50	115	105	146	130	177	162	190	169	162	212	191	0.386	
70	146	132	186	166	227	208	243	218	210	273	246	0.272	
95	177	159	225	201	275	253	295	267	256	331	302	0.206	
120	204	182	261	232	320	294	341	311	299	384	351	0.161	
150	233	210	291	254	370	339	394	361	345	442	406	0.129	
185	265	238	331	287	423	388	449	414	397	505	466	0.106	
240	311	277	388	336	500	458	530	492	470	597	552	0.0801	

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 70°C thermoplastic insulated cable

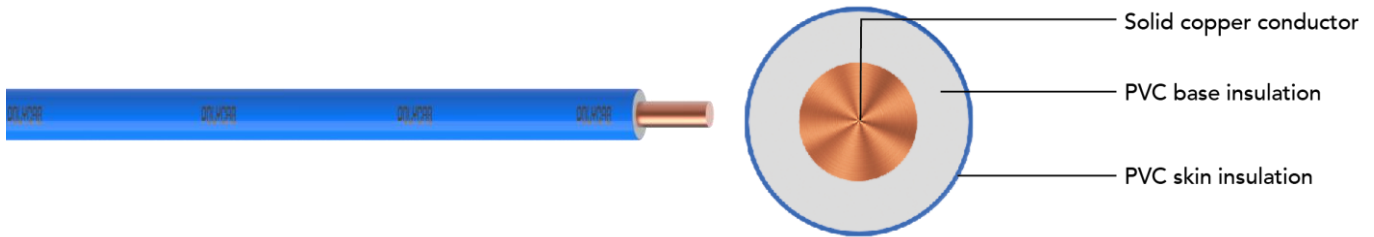
Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

### OUR ACCREDITATION



## POLYCAB H07V-U/H07V-R BS EN 50525-2-31 SC

### Industrial Cable, 450/750 V AC



#### 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.

#### 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.

#### Standard and References:

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

#### Test Voltage

2500V AC at (20±5) °C

#### 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

#### Approval



#### OUR ACREDITATION





## POLYCAB H07V-U/H07V-R BS EN 50525-2-31 SC

### Industrial Cable, 450/750 V AC

Product Code	Nominal cross sectional area mm <sup>2</sup>	No. of Strand/strand dia. mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/ DOWELL Gland Size
LDBS06CYUAYA001C001S	1	1/1	2.50	15	-
LDBS06CYUAYA001C1.5S	1.5	1/1.2	2.90	20	-
LDBS06CYUAYA001C1.5S	1.5	7/0.53	3.00	21	-
LDBS06CYUAYA001C2.5S	2.5	1/1.6	3.55	31	-
LDBS06CYUAYA001C2.5S	2.5	7/0.67	3.65	33	-
LDBS06CYUAYA001C004S	4	7/0.86	4.20	48	-
LDBS06CYUAYA001C006S	6	7/1.04	4.75	67	-
LDBS06CYUAYA001C010S	10	7/1.35	6.15	112	DBW-01SS
LDBS06CYUAYA001C016S	16	7/1.7	6.70	167	DBW-01SS
LDBS06CYUAYA001C025S	25	7/2.14	8.90	261	DBW-01SS
LDBS06CYUAYA001C035S	35	7/2.52	9.95	352	DBW-01SS
LDBS06CYUAYA001C050S	50	19/1.7	11.70	476	DBW-01SS
LDBS06CYUAYA001C070S	70	19/2.16	13.35	670	DBW-01S
LDBS06CYUAYA001C095S	95	19/2.52	15.60	926	DBW-01S
LDBS06CYUAYA001C120S	120	37/2.05	17.2	1154	DBW-01
LDBS06CYUAYA001C150S	150	37/2.3	19.1	1425	DBW-02
LDBS06CYUAYA001C185S	185	37/2.52	21.3	1782	DBW-03
LDBS06CYUAYA001C240S	240	37/2.86	24.3	2331	DBW-04
LDBS06CYUAYA001C300S	300	61/2.52	27.05	2915	DBW-05
LDBS06CYUAYA001C400S	400	61/2.88	30.35	3713	DBW-06
LDBS06CYUAYA001C500S	500	61/3	33.7	4749	DBW-07
LDBS06CYUAYA001C630S	630	91/3	37.55	6073	DBW-08

- DBW – Weather proof Series

#### OUR ACREDITATION



## 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 mm <sup>2</sup>	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 Ω/km
	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		
	Amp	Amp	Amp	Amp	Amp	Amp	Amp	Horizontal Amp	Vertical Amp	
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

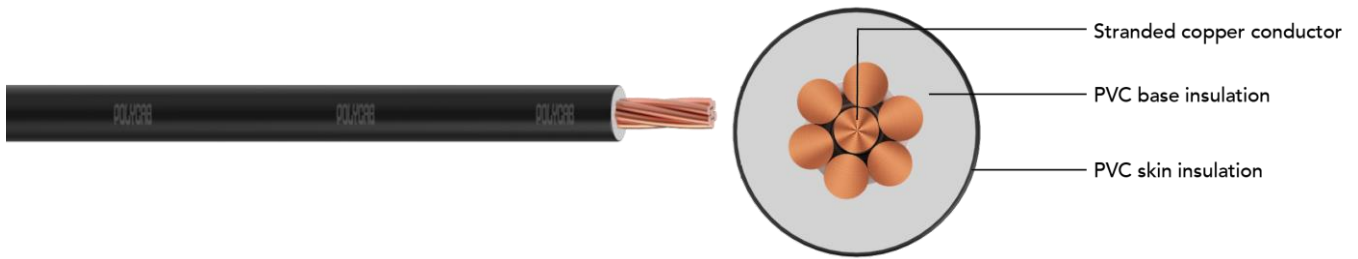
Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

#### OUR ACCREDITATION



# POLYCAB H05V2-U/H05V2-R/H07V2-U/H07V2-R BS EN 50525-2-31 SC

## Industrial Cable, 300/500 V & 450/750 V AC



### Application

POLYCAB H05V2-U/H05V2-R/H07V2-U/H07V2-R 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.

### Voltage Rating

H05V2-U/H05V2-R - 300/500 V

H07V2-U/H07V2-R - 450/750 V

### Operation Temperature

Fixed: -15°C to 90° C

### Construction

- Annealed stranded or solid copper conductor as per IEC 60228, class 2 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

### Standard and References:

IEC 60228

BS EN 50363-3

BS EN 50525-2-31

IEC 60332-1-2

### Test Voltage

H05V2-U/H05V2-R - 2000V AC at (20±5) °C

H07V2-U/H07V2-R - 2500V AC at (20±5) °C

### 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 ACCREDITATION



ISO  
9001

ISO  
14001

ISO  
45001

NABL

ABS

IRS

## POLYCAB H05V2-U/H05V2-R/H07V2-U/H07V2-R BS EN 50525-2-31 SC

### Industrial Cable, 300/500 V & 450/750 V AC

Dimension table of H05V2-U/H05V2-R

Product Code	Nominal cross sectional area mm <sup>2</sup>	Class of conductor	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CYUAYC001C0.5S	0.5	1	2.20	11
LDBS04CYUAYC001C.75S	0.75	1	2.40	15
LDBS04CYUAYC001C001S	1	1	2.60	19
LDBS04CYUAYC001C0.5S	0.5	2	2.10	8
LDBS04CYUAYC001C.75S	0.75	2	2.31	11
LDBS04CYUAYC001C001S	1	2	2.46	14

Dimension table of H07V2-U/H07V2-R

Product Code	Nominal cross sectional area mm <sup>2</sup>	Class of conductor	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB DOWEL/GLAND SIZE
LDBS06CYUAYC001C1.5S	1.5	1	2.80	21	-
LDBS06CYUAYC001C2.5S	2.5	1	3.40	32	-
LDBS06CYUAYC001C004S	4	1	3.90	49	-
LDBS06CYUAYC001C006S	6	1	4.40	69	-
LDBS06CYUAYC001C010S	10	1	5.60	113	-
LDBS06CYUAYC001C1.5S	1.5	2	2.99	21	-
LDBS06CYUAYC001C2.5S	2.5	2	3.61	32	-
LDBS06CYUAYC001C004S	4	2	4.18	49	-
LDBS06CYUAYC001C006S	6	2	4.72	68	-
LDBS06CYUAYC001C010S	10	2	6.05	113	DBW - 01SS (UN)
LDBS06CYUAYC001C016S	16	2	7.10	171	DBW - 01SS (UN)
LDBS06CYUAYC001C025S	25	2	8.82	269	DBW - 01SS (UN)
LDBS06CYUAYC001C035S	35	2	9.96	363	DBW - 01SS (UN)

- DBW – Weatherproof series

#### OUR ACCREDITATION



# POLYCAB H05V2-U/H05V2-R/H07V2-U/H07V2-R BS EN 50525-2-31 SC

## Industrial Cable, 300/500 V & 450/750 V AC

### Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area  mm <sup>2</sup>	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  Ω/km
	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.	Spaced by one cable diameter		Touching			Spaced by one cable diameter		
					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 Amp.	
1	14	13	17	15	19	17.5	–	–	–	–	–	18.1
1.5	19	17	23	20	25	23	–	–	–	–	–	12.1
2.5	26	23	31	28	34	31	–	–	–	–	–	7.41
4	35	31	42	37	46	41	–	–	–	–	–	4.61
6	45	40	54	48	59	54	–	–	–	–	–	3.08
10	61	54	75	66	81	74	–	–	–	–	–	1.83
16	81	73	100	88	109	99	–	–	–	–	–	1.15
25	106	95	133	117	143	130	161	141	135	182	161	0.727
35	131	117	164	144	176	161	200	176	169	226	201	0.524

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

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