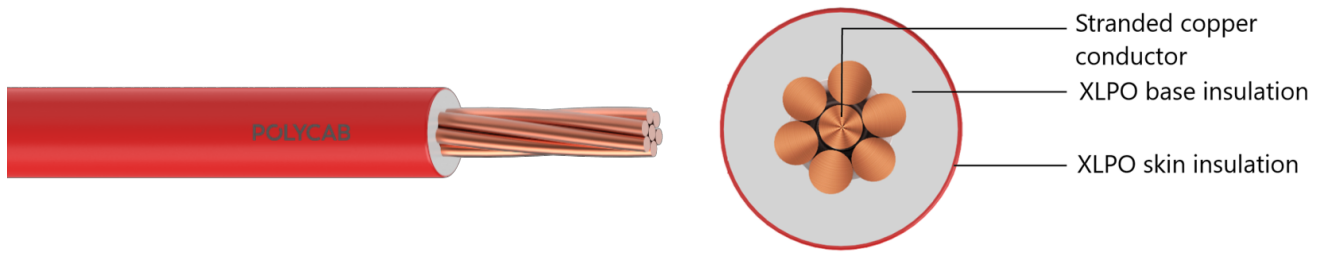


# POLYCAB H07Z-R BS EN 50525-3-41

## Industrial Cable, 450/750 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H07Z-R BS EN 50525-3-41 SC stranded copper conductor insulated with halogen free cross-linked compound with low smoke emission and corrosive gases when exposed to fire condition, fulfils the requirement of BS EN 50525-3-41. This Cable is intended to use for fixed wiring application in electric panels and switch boards.

### CHARACTERISTICS

**Voltage Rating**  
450/750 V

**Operation Temperature**  
Fixed: 0°C to 90°C

### CONSTRUCTION

- Annealed stranded copper conductor as per IEC 60228, class 2
- Insulated with cross linked polyolefin material Type EI 5 to EN 50363-5

#### 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

- Highly Flexible
- Good Insulation Resistance
- Halogen Free
- Low Smoke

### STANDARD FOLLOWS

IEC 60228  
BS EN 50363-5  
BS EN 50525-3-41  
IEC 60332-1-2

### COMPLIANCE

Conductor resistance test - IEC 60228  
Insulation resistance - EN 50525-3-41  
Smoke emission test - EN 61034-2  
Test on vertical flame - EN 60332-1-2

### OUR ACCREDITATIONS



### APPROVAL



# POLYCAB H07Z-R BS EN 50525-3-41

## Industrial Cable, 450/750 V AC

### Weight & Dimension Data

Product Code	Nominal cross sectional area mm <sup>2</sup>	Minimum insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
LDBS06CLUALC001C1.5S	1.5	0.7	2.99	21	-
LDBS06CLUALC001C2.5S	2.5	0.8	3.61	32	-
LDBS06CLUALC001C004S	4	0.8	4.18	48	-
LDBS06CLUALC001C006S	6	0.8	4.72	67	-
LDBS06CLUALC001C010S	10	1	6.05	112	DBW - 01SS (UN)
LDBS06CLUALC001C016S	16	1	7.10	169	DBW - 01SS (UN)
LDBS06CLUALC001C025S	25	1.2	8.82	266	DBW - 01SS (UN)
LDBS06CLUALC001C035S	35	1.2	9.96	360	DBW - 01SS (UN)
LDBS06CLUALC001C050S	50	1.4	11.95	514	DBW - 01SS (UN)
LDBS06CLUALC001C070S	70	1.4	13.60	701	DBW - 01S (UN)
LDBS06CLUALC001C095S	95	1.6	15.80	952	DBW - 01A (UN)
LDBS06CLUALC001C120S	120	1.6	17.41	1189	DBW - 02 (UN)
LDBS06CLUALC001C150S	150	1.8	19.49	1488	DBW - 02 (UN)
LDBS06CLUALC001C185S	185	2	21.64	1834	DBW - 02 (UN)
LDBS06CLUALC001C240S	240	2.2	24.49	2371	DBW - 04A (UN)
LDBS06CLUALC001C300S	300	2.4	27.3	2960	DBW - 05A (UN)
LDBS06CLUALC001C400S	400	2.6	31.12	3907	DBW - 06 SP (UN)
LDBS06CLUALC001C500S	500	2.8	34.67	4897	DBW - 07 SP (UN)
LDBS06CLUALC001C630S	630	2.8	38.27	6123	DBW - 08 (UN)

• DBW – Weather proof series

# POLYCAB H07Z-R BS EN 50525-3-41

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### Electrical Characteristics

Current carrying capacity and Max 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	
							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.	Amp.	Ω/km
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
50	158	141	198	175	228	209	242	216	207	275	246		0.387
70	200	179	253	222	293	268	310	279	268	353	318		0.268
95	241	216	306	269	355	326	377	342	328	430	389		0.193
120	278	249	354	312	413	379	437	400	383	500	454		0.153
150	318	285	393	342	476	4036	504	464	444	577	527		0.124
185	362	324	449	384	545	500	575	533	510	661	605		0.0991
240	424	380	528	450	644	590	679	634	607	781	719		0.0754
300	486	435	603	514	743	681	783	736	703	902	833		0.0601
400	—	—	683	584	868	793	940	868	823	1,085	1,008		0.047
500	—	—	783	666	990	904	1,083	998	946	1,253	1,169		0.0366
630	—	—	900	764	1,130	1,033	1,254	1,151	1,088	1,454	1,362		0.0283

**POLYCAB H07Z-R BS EN 50525-3-41**  
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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 thermosetting 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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