



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB H05Z-K/H07Z-K bunched copper conductor, insulated with halogen free cross-linked compound with low smoke emission and corrosive gases when exposed to fire condition fulfills the requirement of BS EN 50525-3-41. This Cable is intended to use for fixed wiring application in electrical panels.

CHARACTERISTICS

Voltage Rating

H05Z-K - 300/500 V
H07Z-K - 450/750 V

Operation Temperature

Fixed: 0°C to 90° C

CONSTRUCTION

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

Core Identification

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

Bending Radius

Fixed installation – 8 x Overall Dia.

Test Voltage

H05Z-K - 2000V AC at (20±5) °C
H07Z-K - 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
Flame retardant properties as per IEC 60332-1-2

OUR ACCREDITATIONS



APPROVAL



POLYCAT H05Z-K/H07Z-K BS EN 50525-3-41 SC

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

POLYCAT
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Dimension:

Dimensions for H05Z-K

Product Code	Nominal cross sectional area mm ²	No. of wire/wire dia No./mm	Minimum insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CLUALC001C0.5S	0.5	16/0.2	0.6	2.11	8
LDBS04CLUALC001C.75S	0.75	24/0.2	0.6	2.32	11
LDBS04CLUALC001C001S	1	32/0.2	0.6	2.49	14

Dimensions for H07Z-K

Product Code	Nominal cross sectional area mm ²	No. of wire/wire dia No./mm	Minimum insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAT/DOWEL Gland Size
LDBS06CLUALC001C1.5S	1.5	30/0.25	0.7	2.96	20	-
LDBS06CLUALC001C2.5S	2.5	50/0.25	0.8	3.62	31	-
LDBS06CLUALC001C004S	4	56/0.3	0.8	4.16	47	-
LDBS06CLUALC001C006S	6	84/0.3	0.8	4.73	67	-
LDBS06CLUALC001C010S	10	80/0.4	1	6.08	112	DBW - 01SS (UN)
LDBS06CLUALC001C016S	16	126/0.4	1	7.12	169	DBW - 01SS (UN)
LDBS06CLUALC001C025S	25	196/0.4	1.2	8.78	261	DBW - 01SS (UN)
LDBS06CLUALC001C035S	35	276/0.4	1.2	9.98	358	DBW - 01SS (UN)
LDBS06CLUALC001C050S	50	396/0.4	1.4	11.87	511	DBW - 01SS (UN)
LDBS06CLUALC001C070S	70	356/0.5	1.4	13.55	703	DBW - 01S (UN)
LDBS06CLUALC001C095S	95	484/0.5	1.6	15.74	954	DBW - 01A (UN)
LDBS06CLUALC001C120S	120	610/0.5	1.6	17.28	1189	DBW - 02 (UN)
LDBS06CLUALC001C150S	150	750/0.5	1.8	19.21	1464	DBW - 02 (UN)
LDBS06CLUALC001C185S	185	942/0.5	2	21.49	1837	DBW - 02 (UN)
LDBS06CLUALC001C240S	240	1210/0.5	2.2	24.23	2353	DBW - 04A (UN)

• DBW – Weatherproof series

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 F (in free air or on a perforated cable tray etc horizontal or vertical etc.)				Reference Method G (in free air)		Max. 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. or d.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		
mm ²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
1	14	13	17	15	19	17.5	—	—	—	19.5
1.5	19	17	23	20	—	—	—	—	—	13.3
2.5	26	23	31	28	—	—	—	—	—	7.98
4	35	31	42	37	—	—	—	—	—	4.95
6	45	40	54	48	—	—	—	—	—	3.3
10	61	54	75	66	—	—	—	—	—	1.91
16	81	73	100	88	—	—	—	—	—	1.21
25	106	95	133	117	161	141	135	182	161	0.78
35	131	117	164	144	200	176	169	226	201	0.554
50	158	141	198	175	242	216	207	275	246	0.386
70	200	179	253	222	310	279	268	353	318	0.272
95	241	216	306	269	377	342	328	430	389	0.206
120	278	249	354	312	437	400	383	500	454	0.161
150	318	285	393	342	504	464	444	577	527	0.129
185	362	324	449	384	575	533	510	661	605	0.106
240	424	380	528	450	679	634	607	781	719	0.0801

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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