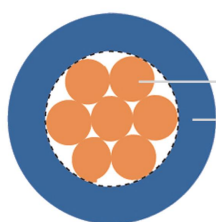


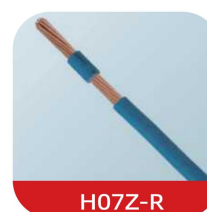
CU/LSOH

6491B,H07Z-U&H07Z-R to BS EN 50525-3-41 (Previously BS7211)

APPLICATION AND DESCRIPTION



- Bare copper conductor
- LSOH thermosetting insulation



- ◎ Solid to BS EN 60228 or IEC 60228 Class 1(H07Z-U)
- ◎ Stranded to BS EN 60228 or IEC 60228 Class 2(H07Z-R)
- ◎ LSOH insulation according to EN50363-5 EI5

CORE IDENTIFICATION

- ◎ Green/Yellow, Black, Blue, Brown, Red, White, Grey, other colors upon request.

APPLICABLE STANDARDS

Design guidelines : BS EN 50525-3-41

Halogen properties : BS EN 60754-1、 BS EN 60754-2

Flame retardant properties : BS EN 60332-1-2

Smoke density : BS EN 61034-2

TECHNICAL CHARACTERISTICS

Working voltage	450/750 Volts
Test voltage	2500 Volts
Minimum bending radius	Up to 10mm ² -3 X Overall diameter 10mm ² to 25mm ² -4×Overall diameter above 25mm ² - 5×Overall diameter
Operating temperature	-15°C to +90°C
Short circuit temperature	+250°C
Insulation resistance	10MΩ·km

H07Z-U&H07Z-R to BS EN 50525-3-41

(Ambient Temperature: 30°C. Conductor operating temperature: 90°C)

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating 90-250°C (1 sec)	Current Rating		Voltage Drop		
					Single phase AC or DC enclosed in conduit or trunking	Three phase AC enclosed in conduit or trunking	DC	Single phase AC in conduit or trunking	Three phase AC in conduit or trunking
mm ²	mm	kg/km	Ohms/km	kA	Amps		mV/A/m		

H07Z-U (Solid conductor)

1.5	2.8	20	12.1	0.22	23	20	31	31	27
2.5	3.4	31	7.41	0.36	31	28	19	19	16

H07Z-R (Stranded conductor)

1.5	3.0	22	12.1	0.22	23	20	31	31	27
2.5	3.7	35	7.41	0.36	31	28	19	19	16
4	4.2	50	4.61	0.60	42	37	12	12	10
6	4.8	71	3.08	0.90	54	48	7.9	7.9	6.8
10	6.0	113	1.83	1.40	75	66	4.7	4.7	4.0
16	7.1	170	1.15	2.30	100	88	2.9	2.9	2.5
25	8.8	271	0.727	3.60	133	117	1.85	1.90	1.65
35	10.0	368	0.524	5.00	164	144	1.35	1.35	1.15
50	11.6	496	0.387	7.20	198	175	0.99	1.05	0.90
70	13.5	692	0.268	10.00	253	222	0.68	0.75	0.65
95	15.7	952	0.193	13.6	306	269	0.49	0.58	0.50
120	17.3	1179	0.153	17.2	354	312	0.39	0.48	0.42
150	19.2	1442	0.124	21.5	393	342	0.32	0.43	0.37
185	21.5	1821	0.0991	26.5	449	384	0.25	0.37	0.32
240	24.4	2357	0.0754	34.3	528	450	0.190	0.33	0.29
300	27.3	2957	0.0601	42.9	603	514	0.155	0.31	0.27
400	30.6	3796	0.0470	57.2	683	584	0.120	0.29	0.25
500	34.5	4800	0.0366	71.6	783	666	0.093	0.28	0.24
630	36.4	6040	0.0283	90.2	900	764	0.072	0.27	0.23

TEMPERATURE RATING FACTORS

Ambient Temperature °C	25	30	35	40	45	50	55	60	65
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65

CORRECTION FACTORS FOR GROUPINGS

Number of Circuits	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Rating Factor	0.8	0.7	0.65	0.6	0.57	0.54	0.52	0.5	0.48	0.45	0.43	0.41	0.39	0.38

※Note: If current rating and buildings is required reference should be made to BS7671 (IEE Wiring Regs)

Complied with the HongKong EMSD COP, and the rating is the average of the conductor cross-sectional area and installation method, and the overall error is within ±5%