



## LSOH Wiring cables Low Voltage(450/750V) 6491B

## LSOH Conduit Wire (H07Z-R)

**Cable Approvals:** Cable approved to BS7211  
**Key Applications:** Manufactured to BS EN 50525-3-41 90°C cross linked (previously BS 7211) Installation in surface mounted or embedded conduits, or similar closed systems and for fixed protected installation in or on lighting fittings and inside appliances, switchgear and control gear particularly for situations in which low emissions of smoke and acid gas is required in case of burning.

**Conductor :** Plain annealed copper stranded circular conductor complying with BS EN 60228 Class 2

**Core Identification:** 90°C LSOH insulation complying with BS EN 50363-5 Type EI 5



Temperature Range  
-25 to +90°C



Bending Range  
Fixed r-8D



Mechanical Impact  
Medium



Fire Performance  
BS EN 60332-1-2



Flexibility  
Rigid



Halogen free  
BS EN 50287-2-2



Low smoke emissions  
BS EN 61034-52

Red  
Black  
Blue  
Yellow

Brown  
Grey  
Green/Yellow  
Other core colours are available on request

Nominal cross sectional area mm <sup>2</sup>	Conceptual construction No/mm	Approx. overall diameter mm	Approx. cable weight kg	Maximum conductor resistance at 20°C Ohms/km	Short circuit rating 90-160 °C (1 sec) KA	Short circuit rating 90-160 °C (1 sec) KA	Current rating DC or single phase AC enclosed in conduit or trunking Amps	Current rating DC or three phase AC enclosed in conduit or trunking Amps	Voltage drop DC mV/A/m	Voltage drop DC or single phase AC mV/A/m	Voltage drop three phase AC mV/A/m
1.5	7/0.53	3	21	12.1	0.15	0.22	22	19	31	31	27
2.5	7/0.67	3.6	32	7.41	0.25	0.36	30	26	19	19	16
4	7/0.85	4.2	47	4.61	0.4	0.6	40	35	12	12	10
6	7/1.04	4.7	66	3.08	0.6	0.9	51	45	7.3	7.9	6.8
10	7/1.35	6.1	114	1.83	1	1.4	71	63	4.7	4.7	4
16	7/1.70	7.2	171	1.15	1.6	2.3	95	85	2.9	2.9	2.5
25	7/2.14	8.4	250	0.727	2.5	3.6	126	111	1.85	1.9	1.65
35	19/1.53	9.5	350	0.524	3.5	5	156	138	1.35	1.35	1.15
50	19/1.78	11.3	470	0.387	5	7.2	189	168	0.99	1.05	0.9
70	19/2.14	12.6	670	0.268	7	10	240	2147	0.68	0.75	0.65
95	19/2.52	14.7	930	0.193	9.5	13.6	290	259	0.49	0.58	0.5
120	37/2.03	16.2	1160	0.153	12	17.2	336	299	0.39	0.48	0.42
150	37/2.25	18.1	1430	0.124	15	21.5	375	328	0.32	0.43	0.37
185	37/2.52	20.2	1790	0.0991	18.5	26.5	426	370	0.25	0.37	0.32
240	61/2.25	22.9	2350	0.0754	24	34.3	500	433	0.19	0.33	0.29
300	61/2.52	27	3030	0.0601	30	42.9	573	493	0.155	0.31	0
400	61/2.85	32	4010	0.047	40	57.2	683	584	0.12	0.29	0.25
500	61/3.20	35.5	5020	0.0366	50	71.6	783	666	0.093	0.28	0.24
630	91/2.95	39.5	6440	0.0283	63	90.2	900	764	0.072	0.27	0.23

\*Compressed stranded conductors  
Temperature Rating Factors

Ambient Temperature °C	25	30	35	40	45	50	55	60
Rating Factor	1.02	1.00	0.95	0.9	0.87	0.82	0.76	0.71

Correction factors for Groupings

Number of Circuits	25	30	35	5	6	7	8	9
Rating Factor	0.80	0.70	0.65	0.6	0.57	0.54	0.52	0.50