

6491B H07Z-R Single Core Technical Data Sheet



Rated Voltage	Operating Temperature (Min/Max)	Minimum Installation Temperature	Recommended Minimum Bending Radius
U°/U 450/750V	-10°C to +90°C	5°C	6 x Overall Diameter

Construction :	Class 2 plain copper conductor to EN 60228
Insulation:	Low Smoke Zero Halogen (LSZH) type EI5 to EN 50363
Standards:	BS 7211 HAR BS EN 50525-3-41 HD 22.9 (H07Z-R) Flame propagation to EN 60332-1-2 Halogen and acid gas content EN 60754-1 Acidity EN 60754-2 Smoke density (transmittance) to BS EN 61034-2 Low voltage directive to 2006/95/EC RoHS directive to 2011/65/EC Basec Approved
Maximum tensile stress:	50 N/mm of the cross-section of the copper
Application:	6491B is a class 2 stranded LSOH cable, used in conduit wiring for distributor boards and switchboards in public buildings, where low smoke halogen free properties are required.

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Conductor (mm)	Nominal Thickness Of Insulation (mm)	Nominal Overall Diameter (mm)	Max Conductor Resistance @ 20°C (Ohms/km)	Approximate Weight (kg/km)
1.5	0.7	3.40	12.10	20.7
2.5	0.8	4.1	7.41	32.0
4.0	0.8	4.7	4.61	47.4
6.0	0.8	5.4	3.08	65.7
10.0	1.0	6.8	1.83	109.8
16.0	1.0	8.0	1.15	164.3
25.0	1.2	9.8	0.727	255.7
35.0	1.2	11	0.524	346.3
50.0	1.4	13.2	0.387	473.3
70	1.4	15.1	0.268	674.5
95	1.6	17	0.193	913.3
120	1.6	19	0.153	1150
150	1.8	21	0.124	1416.9
185	2.0	23.5	0.0991	1749.5
240	2.2	26.5	0.0754	2316.5
300	2.4	29.5	0.0601	3049.1
400	2.6	33.5	0.047	3838.6