

LSHF Single Core Cable

6491B 450/750V

Cable Application

6491B H07Z-R to BS7211 cable is suitable for power, conduit wiring, lighting networks, switchgear, control gear and internal wiring. The class 2 plain annealed copper conductor is LSHF (Low Smoke Halogen Free) insulated. Available in a variety of colours, the LSHF insulated non-armoured cable is designed for use in situations where smoke and acid gas emissions would be hazardous to people and equipment.

Technical Information

Conductor Material:	Copper, BS EN 60228:2005
Conductor Shape:	Stranded circular
Outer Sheath:	LSHF (Low Smoke Halogen Free)
Colour:	1.5mm & 2.5mm: Brown, black, blue, grey, green/yellow (earth), orange, red and white 4.0mm up to 630mm: Brown, black, blue, grey and green/yellow (earth)
Halogen Free:	Yes
Lead Free:	Yes
Rated Voltage U₀/U (Um):	450/750V
Installation Temperature:	Minimum: 0°C • Maximum: 60°C
Operating Temperature:	Minimum: -20°C • Maximum: 90°C
Short-circuit Maximum Conductor Temperature:	250°C
Installation Type:	Conduit wiring
Flame Retardant:	IEC60332-1
Smoke Density:	IEC61034
Gases Toxicity:	Low toxicity to IEC60754
Gases Corrosivity:	Low IEC 60754-2
Bending Radius:	1.5mm ² up to 25mm ² = 3 x Ø 35mm ² up to 240mm ² = 4 x Ø 240mm ² up to 630mm ² = 6 x Ø

Part number	Cross section mm ²	Stranding mm	Approx weight kg/km	Approx overall diameter	Nylon A2 Gland size mm	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating (enclosed in conduit)	
							Single-phase a.c. or d.c. amp	Three-phase a.c. amp

6491B/H07Z-R to BS7211

6491B1.5+	1 x 1.5	7/0.53	21	2.9	16	12.1	22	10
6491B2.5+	1 x 2.5	7/0.67	34.5	3.53	16	7.41	30	26
6491B4.0+	1 x 4.0	7/0.85	50	4.4	16	4.61	40	35
6941B6.0+	1 x 6.0	7/1.04	70	4.68	16	3.08	51	45
6491B10+	1 x 10	7/1.35	119	5.98	16	1.83	71	63
6491B16+	1 x 16	7/1.70	179	6.95	16	1.15	95	85

LSZH Single Core Cable



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							Single-phase a.c. or d.c. amp	Three-phase a.c. amp
6491B/H07Z-R to BS7211								
6491B25+	1 x 25	7/2.14	278	8.7	20	0.727	126	111
6491B35+	1 x 35	7/2.52	378	10.08	20	0.524	156	138
6491B50+	1 x 50	19/1.78	562	11.8	20	0.387	189	168
6491B70+	1 x 70	19/2.14	719	13.5	25	0.268	240	214
6491B95+	1 x 95	19/2.52	991	15.7	25	0.193	290	259
6491B120+	1 x 120	37/2.03	1,217	17.4	25	0.153	336	299
6491B150+	1 x 150	37/2.25	1,508	19.3	32	0.124	375	328
6491B185+	1 x 185	37/2.52	1,902	21.5	32	0.0991	426	370
6491B240+	1 x 240	61/2.25	2,486	24.6	32	0.0754	450	433
6491B300+	1 x 300	61/2.52	3,042	27.9	40	0.0601	573	493
6491B400+	1 x 400	61/3.85	3,953	30.8	40	0.047	683	584
6491B500+	1 x 500	61/3.20	4,957	33.8	50	0.0366	783	666
6491B630+	1 x 630	127/2.50	6,279	37.6	50	0.0283	900	764

+ Add colour you require

For current ratings refer to IEE Regulations tables 4E1 and 2 pages 112 to 117.