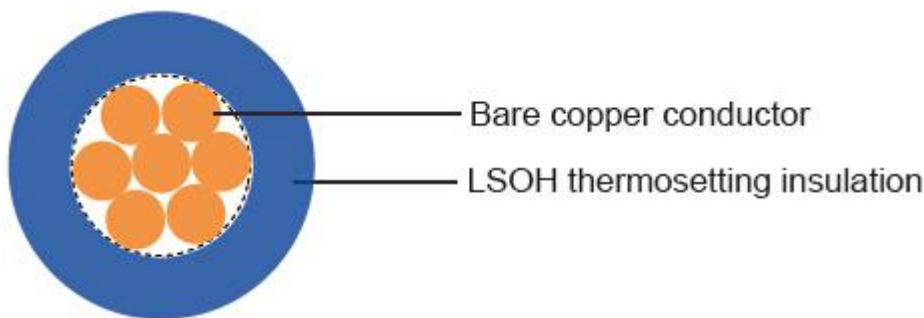


## 6491B to BS 7211 (New BS EN 50525-3-41)

### Application and Description

6491B to BS 7211 (New BS EN 50525-3-41) cables are designed for fixed wiring purposes in domestic and industrial power/lighting applications. They can be used in trunking or conduit, or may be surface mounted when used for earthing. And 6491B to BS 7211 (New BS EN 50525-3-41) cables are generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. 6491B to BS 7211 (New BS EN 50525-3-41) cables produce no corrosive gasses when burnt and which is particularly important where electronic equipment is installed. 6491B is equivalent to harmonized code H07Z-U/ H07Z-R/H07Z-K.

### Cable Construction



Bare copper made of solid/strands conductor  
Solid to BS 6360 CL-1 or IEC 60228 CL-1(H07Z-U)  
Stranding to BS 6360 CL-2 or IEC 60228 CL-2(H07Z-R)  
Stranding to BS 6360 CL-5 or IEC 60228 CL-5(H07Z-K)  
LSOH thermosetting core insulation type EI5

### Core Identification

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

### Technical Characteristics

Working voltage: 450/750 volts  
Test voltage: 2500 volts  
Minimum bending radius:  
up to 10 mm<sup>2</sup> - 3xoverall diameter,  
above 25 mm<sup>2</sup> - 6xoverall diameter  
Operating temperature: +0<sup>o</sup> C to +90<sup>o</sup> C  
Short circuit temperature: +250<sup>o</sup> C  
Insulation resistance: 10 MΩxkm  
Halogen free acc. to EN 50267-2-1 / IEC 60754-1

Smoke density acc. to EN 50268-2 / IEC 61034-2

Corrosivity of gases acc. to EN 50267-2-2, IEC 60754-2

Flame retardancy acc. to EN 50265-2-1, IEC 60332-1

**Cable Parameter**

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #x $\text{mm}^2$	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Weight kg/km
16(solid)	1x1.5	0,7	2.8	14.4	20
14(solid)	1x2.5	0,8	3.3	24	30
12(solid)	1x4	0,8	3.8	38	45
10(solid)	1x6	0,8	4.3	58	65
8(solid)	1x10	1,0	5.5	96	105
16(7/24)	1x1.5	0.7	3.0	14.4	21
14(7/22)	1x2.5	0.8	3.6	24	33
12(7/20)	1x4	0.8	4.1	39	49
10(7/18)	1x6	0.8	4.7	58	71
8(7/16)	1x10	1	6	96	114
6(7/14)	1x16	1	6.8	154	172
4(7/12)	1x25	1.2	8.4	240	265
2(7/10)	1x35	1.2	9.3	336	360
1(19/13)	1x50	1.4	10.9	480	487
2/0(19/11)	1x70	1.4	12.6	672	683
3/0(19/10)	1x95	1.6	14.7	912	946
4/0(37/12)	1x120	1.6	16	1152	1174
300MCM(37/11)	1x150	1.8	17.9	1440	1448
350MCM(37/10)	1x185	2.0	20.0	1776	1820
500MCM(61/11)	1x240	2.2	22.7	2304	2371
-(61/10)	1x300	2.4	25.4	2980	3050
-(61/9)	1x400	2.6	28.8	3765	3842
-(61/8)	1x500	2.8	32.8	4725	4900
-(127/10)	1x630	2.8	36.5	6205	6334

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #x $\text{mm}^2$	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Weight kg/km
16(30/30)	1 x 1.5	0,7	3.5	14.4	24
14(50/30)	1 x 2.5	0,8	4	24	35
12(56/28)	1 x 4	0,8	4.8	38	51
10(84/28)	1 x 6	0,8	6	58	71
8(80/26)	1 x 10	1,0	6.7	96	118
6(128/26)	1 x 16	1,0	8.2	154	180
4(200/26)	1 x 25	1,2	10.2	240	278
2(280/26)	1 x 35	1,2	11.5	336	375
1(400/26)	1 x 50	1,4	13.6	480	560
2/0(356/24)	1 x 70	1,4	16	672	780
3/0(485/24)	1 x 95	1,6	18.4	912	952
4/0(614/24)	1 x 120	1,6	20.3	1152	1200
300 MCM (765/24)	1 x 150	1,8	22.7	1440	1505
350 MCM (944/24)	1 x 185	2,0	25.3	1776	1845
500MCM(1225/24)	1 x 240	2,2	28.3	2304	2400