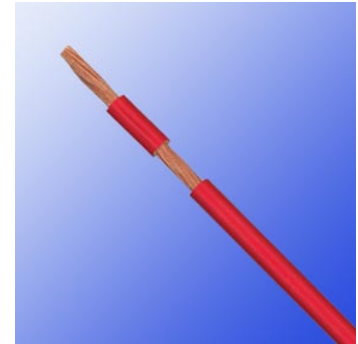




## 6491B Conduit Wiring Cable

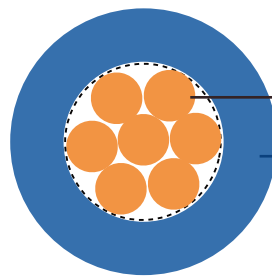
### Application and Description

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



### Cable Construction

- Fine bare copper strands
- Strands to IEC 60228 CI-2
- Thermosetting core insulation type EI5
- LSOH - low smoke, zero halogen



Bare copper conductor

LSOH thermosetting insulation

### Insulation Colour

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

### Technical Characteristics

- Working voltage: 450/750v
- Test voltage: 2500 volts
- Minimum bending radius: up to 10 mm<sup>2</sup> - 3 x overall diameter,  
above 25 mm<sup>2</sup> - 6 x overall diameter
- Flexing temperature: +0° C to +90° C
- Short circuit temperature: +250° C
- Insulation resistance: 10 MΩ x km



- Flame retardant: IEC 60332.1
- Smoke density acc. to EN 50268 / IEC 61034
- Corrosiveness of combustion gases acc. to EN 50267-2-2, IEC 60754-2
- Flame test: flame-retardant acc. to EN 50265-2-1, IEC 60332.1

### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight	Minimum Insulation resistance at 90 °C
	# x mm <sup>2</sup>	mm	mm	kg/km	kg/km	MΩ·km
16(7/24)	1 x 1.5	0.7	2.7-3.4	14.4	21	0.010
14(7/22)	1 x 2.5	0.8	3.3-4.1	24	33	0.009
12(7/20)	1 x 4	0.8	3.8-4.7	39	49	0.0077
10(7/18)	1 x 6	0.8	4.3-5.4	58	71	0.0065
8(7/16)	1 x 10	1	5.6-7.0	94	114	0.0065
6(7/14)	1 x 16	1	6.4-8.0	154	172	0.0050
4(7/12)	1 x 25	1.2	8.1-10.1	240	265	0.0050
2(7/10)	1 x 35	1.2	9.0-11.3	350	397	0.0043
1(19/13)	1 x 50	1.4	10.6-13.2	480	534	0.0043
2/0(19/11)	1 x 70	1.4	12.1-15.1	672	830	0.0035
3/0(19/10)	1 x 95	1.6	14.1-17.6	912	1054	0.0035
4/0(37/12)	1 x 120	1.6	15.6-19.4	1152	1274	0.0032
300MCM(37/11)	1 x 150	1.8	17.3-21.6	1440	1604	0.0032
350MCM(37/10)	1 x 185	2.0	19.3-24.1	1776	2030	0.0032
500MCM(61/11)	1 x 240	2.2	22.0-27.5	2400	2630	0.0032
-(61/10)	1 x 300	2.4	24.5-30.6	3010	3330	0.0030
-(61/9)	1 x 400	2.6	27.5-34.3	3820	4190	0.0028
-(61/8)	1 x 500	2.8	30.5-38.2	4800	5240	0.0028
-(127/10)	1 x 630	2.8	34.0-42.5	6350	6820	0.0025