

## 6491 B - ENHANCED FIRE SAFETY WIRING CABLE

**STANDARD:** BS 7211

**VOLTAGE RATING:** 450/750V

When installed in an earthed metal enclosure, cables are suitable for voltages up to 1000V a.c. or up to 750V to earth d.c.

**APPLICATION:**

Industrial wiring installations where smoke and acid gas emission would pose a major hazard in the event of fire. These cables are intended for drawing into trunking and conduit. They may also be used inside fixed, protected installations such as light fittings, appliances, switchgear and controlgear, which are to be used in higher temperature zones.

**CONSTRUCTION:**

Single core cable. Solid or stranded plain copper conductor, Thermosetting Zero Halogen Low Smoke (OHLS<sup>®</sup>) insulated.

**INSULATION COLOURS:**

Black, Brown, Yellow†, Blue, Red, Green/Yellow, Grey, Orange, Pink, Turquoise and Violet. White is also available.

**BASEC:** Certified

**MAXIMUM CONDUCTOR TEMPERATURE:** 90°C

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see regulation 512-1-2 of BS7671, the 17th Edition of IEE Wiring Regulations).

**CURRENT RATING:** Refer to tables 4E1A & 4E1B in BS7671 or on pages 99-100

**HARMONISED CODE:** H07Z-R

**FIRE PERFORMANCE CHARACTERISTICS:**

**Smoke emission:** IEC 61034 , BS EN 50268

**Acid gas emission:** IEC 60754-2, BS EN 50267-2

**Flame propagation:** IEC 60332-1, BS EN 50265

Nominal area of conductor	Class of conductor at 20°C	Conductor Resistance	Insulation thickness (upper limit)	Mean overall diameter	Approx. nett weight	Minimum bending radius factor
mm		Ω/Km	mm	mm	kg/km	
1.5	2	12.1	0.7	3.4	22	2D
2.5	2	7.41	0.8	4.2	35	2D
4	2	4.6	0.8	4.8	50	2D
6	2	3.08	0.8	5.4	72	2D
10	2	1.83	1.0	6.8	121	2D
16	2	1.15	1.0	8.0	182	2D
25	2	0.727	1.2	9.8	285	2D
35	2	0.524	1.2	11.0	390	3D
50	2	0.387	1.4	13.0	520	3D
70	2	0.268	1.4	15.0	720	3D
95	2	0.193	1.6	17.0	980	3D
120	2	0.153	1.6	19.0	1220	3D
150	2	0.124	1.8	21.0	1500	3D
185	2	0.0991	2.2	23.5	1910	3D
240	2	0.0754	2.2	26.5	2490	6D
300	2	0.0601	2.4	29.5	3100	6D
400	2	0.0470	2.6	33.5	3950	6D
500	2	0.0366	2.8	37.0	5000	6D
630	2	0.0283	2.8	41.0	6350	6D

† Single colour yellow is not harmonised

