

LSZH INSULATED UNSHEATHED CABLES

These are single core LSZH insulated unsheathed cables as per AS/NZS 5000.1 intended for use in electrical installations at working voltages up to and including 0.6/1 (1.2) kV.

CONSTRUCTION

Conductor: Plain annealed copper conductor complying with AS/NZS 1125, class 1 or 2.

(Tinned annealed copper conductor available on request).

Insulation: X-HF- 90

CHARACTERISTICS

General	Single core LSZH insulated unsheathed cables manufactured to AS/NZS 5000.1
Voltage grade	0.6/1 (1.2) kV
Cable operating temperature	90°C maximum
Core colours	Red, White, Blue, Black, Green/Yellow (Other Colours on request).
Packaging	100 / 500 meter reels: Other packaging and lengths available on request.
Key Applications:	Fixed installations in power and lighting circuits at working voltages up to and including 0.6/1 (1.2) kV

TECHNICAL DATA

Single core, 0.6/1kV X-HF-90 insulated, to AS/NZS 5000.1 (unsheathed), copper conductors, 90°C

Nominal conductor area	Conductor Type	Nominal Insulation thickness	Nominal overall diameter	Approximate mass	Maximum DC resistance at 20°C
mm ²	mm ²	mm	mm	kg/100m	Ω/Km
0.5	Class-1	0.7	2.4	1.0	36.0
1.0	Class-1	0.7	2.8	1.6	18.1
1.0	Class-2	0.7	2.9	1.7	21.2
1.5	Class-2	0.7	3.1	2.0	13.6
2.5	Class-2	0.7	3.6	3.2	7.41
4	Class-2	0.7	4.5	5.1	4.61
6	Class-2	0.7	5.1	7.1	3.08
10	Class-2	0.7	6.0	11	1.83
16	Class-2	0.7	6.9	17	1.15
25	Class-2	0.9	8.4	26	0.727
35	Class-2	0.9	9.4	35	0.524
50	Class-2	1.0	10.9	48	0.387
70	Class-2	1.1	12.4	67	0.268
95	Class-2	1.1	15.2	96	0.193
120	Class-2	1.2	17.3	118	0.153
150	Class-2	1.4	18.8	144	0.124
185	Class-2	1.6	21.1	180	0.0991
240	Class-2	1.7	24.1	236	0.0754
300	Class-2	1.8	26.9	296	0.0601
400	Class-2	2.0	30.6	376	0.0470
500	Class-2	2.2	34.1	477	0.0366
630	Class-2	2.4	37.8	613	0.0283

Bending Radius requirements

Overall diameter of cable (D)	Minimum Bending Radius -mm (Fixed Installation)
Up to 10mm	3 x Overall Diameter
Exceeding 10mm but less than 25mm	4 x Overall Diameter
Exceeding 25mm	6 x Overall Diameter