Fire Detection and Alarm System Cables

Three Core, Overall Screen, Fire Rated

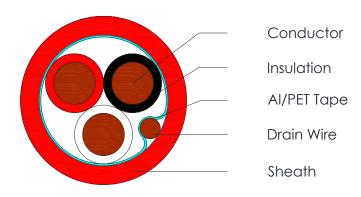


C1477, C1478, C1505, C1506

Applications

Screened two core cable suitable for Fire Detection and Alarm Systems.

Cross Section Drawing



Design

Unit	Properties
Conductor	3 x Bare Copper wire
Insulation	Cross linked Polyethylene Core 1: Black Core 2: Red Core 2: White
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper wire
Sheath Material	Halogen Free Flame-Retardant (HFFR/LSZH) Colour: Red
Standard Put Up Length	305 metres

^{*}Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C1477	C1478	C1505	C1506
No of cores x cross section in sqmm (mm2)	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5
Nom. Diameter Conductor (mm)	1 x 1.0	1 x 1.13	1 x 1.4	1 x 1.8
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8
Diameter over insulation (mm)	2.4	2.5	2.8	3.4
Screen Coverage (%)	115			
Nom. Cross Section Drain Wire (mm2)	0.50	0.50	0.50	0.50
Nom. Overall Diameter (mm)	7.7	8.0	8.9	10.2
Operating Temperature (°C)	-40 to +105			
Minimum bending radius (mm)	80	80	90	100
Max. recommended pulling tension (N)	190	240	350	570

Electrical Characteristics at 20°C

Part Number	C1477	C1478	C1505	C1506
No of Cores x AWG Gauge	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41
Max. DC Resistance Screen (Ω/km)	52.7			
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Max. Recommended Current at 25°C (Amps)	12	18	21	30

Reference Standards

IEC 60332-3-24	IEC 61034
IEC 60754-1 &-2	RoHS directives