

# Fire Detection and Alarm System 600V Cables

## Two Core, Overall Screen, FPLR Type

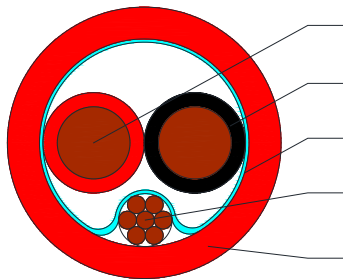


C1494, C1495, C1496, C1497

### Applications

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

### Cross Section Drawing



Conductor  
 Insulation  
 Al/PET Tape  
 Drain Wire  
 Sheath



### Design

Unit	Properties
Conductor	2 x Bare Copper wire
Insulation	Polyvinyl Chloride Core 1: Black Core 2: Red
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	22 AWG (7 x 30) Tinned Copper wire
Sheath Material	Flame-Retardant Polyvinyl Chloride 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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## Two Core, Overall Screen, FPLR Type



**C1494, C1495, C1496, C1497**

### Physical Characteristics

Part Number	C1494	C1495	C1496	C1497
No of Cores x AWG Gauge	2 x 18AWG	2 x 16AWG	2 x 14AWG	2 x 12AWG
Nom. Diameter Conductor (mm)	1.02	1.29	1.63	2.05
Nom. Radial Thickness Insulation (mm)	0.8	0.8	1.0	1.0
Nom. Diameter Drain Wire (mm)	0.75			
Nom. Diameter Insulation (mm)	2.60	2.90	3.63	4.05
Nom. Radial Thickness Sheath (mm)	0.9	0.9	1.0	1.1
Nom. Overall Diameter (mm)	7.1	7.5	9.3	10.3
Operating Temperature (°C)	-40 to +105			
Max. Recommended Pulling Tension (N)	237	380	607	964
Min. Bend Radius (install) (mm)	71	75	93	103
Nominal Cable Weight (kg/km)	57.0	69.8	102.3	312.1
Fire Retardancy	FPLR	FPLR	FPLR	FPLR

### Electrical Characteristics at 20°C

Part Number	C1494	C1495	C1496	C1497
No of Cores x AWG Gauge	2 x 18AWG	2 x 16AWG	2 x 14AWG	2 x 12AWG
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7	15.47	9.36	5.61
Max. DC Resistance Screen ( $\Omega$ /km)	52.7			
Capacitance conductor to conductor (pF/m)	105	120	121	140
Capacitance cond. To other cond.+screen (pF/m)	210	228	224	248
Nominal Inductance ( $\mu$ H/m)	0.3	0.5	0.6	0.6
Max. Recommended Current at 25°C(Amps)	5.3	11	18	24
Max. Operating Voltage (Vrms)	600			

### Reference Standards

UL 1666 – UL1424 FPLR

RoHS directives