

Instrumentation and Computer Cable

I PR, 22AWG, Shielded & Armoured with LSF Sheath

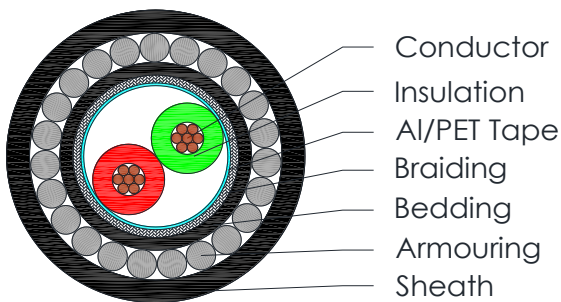


C4947

Applications

Instrumentation and computer cable for Data Transmission applications such as Profibus.

Cross Section Drawing



Design

Unit	Properties
Conductor	Stranded Bare Copper
Insulation	Foamed Polyethylene Color: Red and Green
Twisting	Two cores twisted together
Screen	Al/PET Tape
Braiding	Tinned copper wire
Inner Sheath	HFFR-LSZH
Armouring	Galvanized Steel Wire
Sheath	LSF Color: Grey
Standard Put Up Length	305 or 500 metres

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

C4947

Physical Characteristics

Part Number	C4947
Conductor Gauge (AWG)	22 (7×30)
Nom. Diameter Insulation (mm)	2.51
Braiding Coverage (%)	65
Nom. Bedding Thickness (mm)	1.10
Nom. Bedding Diameter (mm)	8.00
Nom. Steel Wire Diameter (mm)	0.90
Min. Coverage (%)	95
Nom. sheath Thickness (mm)	1.30
Nom. Overall Diameter (mm)	12.40
Operating Temperature (Moving installation) (°C)	-15 to +80
Operating Temperature (Fixed installation) (°C)	-45 to +80
Min. Bend Radius (install)(mm)	186

Electrical Characteristics at 20°C

Part Number	C4947
Impedance 3-20MHz (Ohm)	150±15
Nom. DC Resistance Conductor (Ω/km)	52
Max. Capacitance conductors to conductor at 1KHz (pF/m)	27.9
Max. Capacitance unbalance at 1KHz (pF/km)	1000
Nom. Velocity of Propagation (%)	78
Max. Operating voltage (V)	300
Nom. Attenuation (dB/100m) At 0.20MHz	0.90
Nom. Attenuation (dB/100m) At 4MHz	2.20
Nom. Attenuation (dB/100m) At 16MHz	4.50
Voltage Rating (Vrms)	300

Reference Standards

(BS) EN 50290-2-27	IEC 60332-1
IEC 60228	RoHS directives