

# Instrumentation and Computer Cable

## I PR, 22AWG, Shielded & Armoured with HFFR Sheath

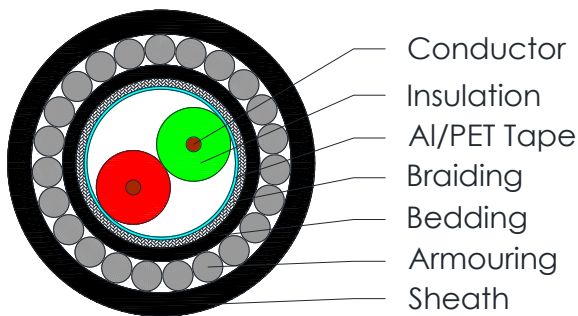


C5960

### Applications

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

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Solid 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	Oil Resistant Halogen Free Fire Retardancy (HFFR-LSZH) Color: Chrome RAL 7037 or Black RAL 9017
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.

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### Physical Characteristics

Part Number	C5960
Conductor Gauge (AWG)	22
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)	-15 to +80
Min. Bend Radius (install)(mm)	186

### Electrical Characteristics at 20°C

Part Number	C5960
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
Max. Attenuation (dB/100m) At 0.20MHz	0.90
Max. Attenuation (dB/100m) At 4MHz	2.20
Max. Attenuation (dB/100m) At 16MHz	4.50
Voltage Rating (Vrms)	300

### Reference Standards

(BS) EN 50290-2-27	IEC 61034
IEC 60228	IEC 60754-1&-2
IEC 60332-3-24	RoHS directives
Oil Resistance IEC 60811-404	
BS 7655 section 6.1 table 1. LTS 3	