

# Instrumentation and Computer Cable

## I PR, I 8AWG, Screened with HFFR Sheath

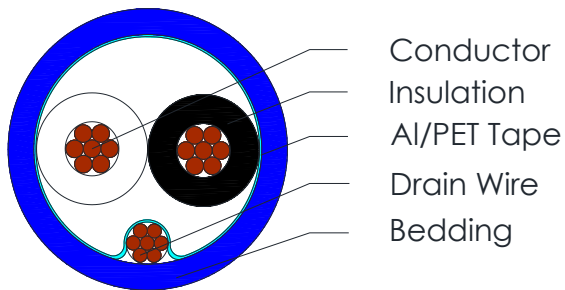


C5076

### Applications

Instrumentation and computer cable for Data Transmission applications.

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Stranded Tinned Copper
Insulation	Polyolefin White and Black
Screen	Al/PET Tape
Drain Wire	Tinned copper wire
Sheath	UV Stabalised Oil resistant Halogen Free Fire Retardancy (HFFR-LSZH) Color: Orange or Blue
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	C5076
Conductor Gauge (AWG)	18 (7×26)
Nom. Insulation Thickness (mm)	0.67
Nom. Diameter Insulation (mm)	2.55
Drain Wire (AWG)	20 (7×28)
Nom. sheath Thickness (mm)	1.15
Nom. Overall Diameter (mm)	7.50
Operating Temperature (Moving installation) (°C)	-15 to +80
Operating Temperature (Fixed installation) (°C)	-45 to +80
Min. Bend Radius (install)(mm)	100
Max. Pulling Tension (N)	50

### Electrical Characteristics at 20°C

Part Number	C5076
Impedance at 31.25KHz (Ohm)	100±5
Max. DC Resistance Conductor (Ω/km)	20.5
Max. DC Resistance Screen (Ω/km)	26.0
Max. Capacitance between conductors of a pair at 1KHz (pF/m)	80
Nominal Capacitance conductor to rest (pF/m)	155
Max. Capacitance unbalance at 1KHz (pF/m)	4
Nom. Velocity of Propagation (%)	66
Max. Operating voltage (V)	300
Max. Attenuation (dB/100m) At 10KHz	0.20
Max. Attenuation (dB/100m) At 39KHz	0.30
Max. Attenuation (dB/100m) At 100KHz	0.60
Max. Attenuation (dB/100m) At 500KHz	2.80
Max. Attenuation (dB/100m) At 1MHz	3.70

### Reference Standards

(BS) EN 50290-2-27	IEC 61034
IEC 60228	IEC 60754-1&-2
IEC 60332-1	Radiation resistance IEC 544 (CERN)
IEC 60811-404	RoHS directives
BS 7655 section 6.1 table 1. LTS 3	