Instrumentation and Computer Cable

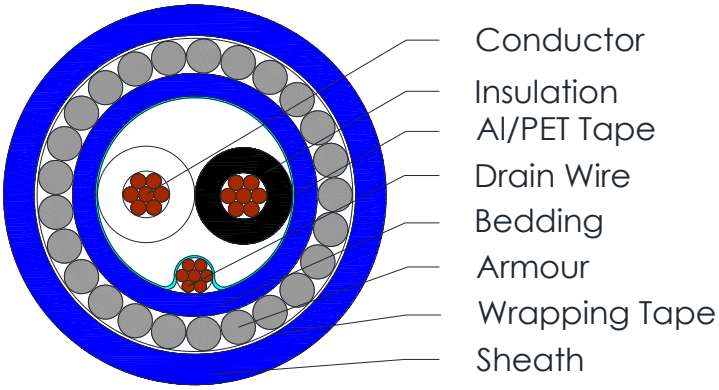
1 PR, 18AWG, Screened & Armoured with HFFR Sheath

C5072, C5073, C5074, C5075

Applications

Instrumentation and computer cable for Data Transmission applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Stranded Tinned Copper
Insulation	Polyolefin
Screen	Al/PET Tape
Drain Wire	Tinned copper wire
Bedding	Halogen Free Fire Retardancy (HFFR-LSZH)
Armour	Galvanized Steel Wire
Wrapping Tape	Fabric Tape
Sheath	UV Stabalised Oil Resistant Halogen Free Fire Retardancy (HFFR-LSZH)
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	C5072	C5073	C5074	C5075
Conductor Gauge (AWG)	18 (7×26)			
Nom. Insulation Thickness (mm)	0.67			
Nom. Diameter Insulation (mm)	2.55			
Insulation Colour	Black+ White	Black+ White	Black+ White	Blue+ Orange
Drain Wire (AWG)	20 (7×28)			
Nom. Inner sheath Thickness (mm)	1.15			
Nom. Inner sheath Diameter (mm)	7.50			
Inner Sheath Colour	Blue	Yellow	Orange	Orange
Nom. Steel Wire Diameter (mm)	0.90			
Min. Armour Coverage (%)	95			
Nom. Outer sheath Thickness (mm)	1.85			
Nom. Overall Diameter (mm)	13.0			
Sheath Colour	Blue	Yellow	Orange	Black
Operating Temperature (Moving installation) (°C)	-15 to +80			
Operating Temperature (Fixed installation) (°C)	-45 to +80			
Min. Bend Radius (install)(mm)	170			

Electrical Characteristics at 20°C

Part Number	C5072	C5073	C5074	C5075
Impedance at 31.25KHz (Ohm)	100±15			
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 60332-3-24	RoHS directives
IEC 60811-404	