

Instrumentation and Computer Cable

I PR, 22AWG, Screened with HFFR or PVC Sheath

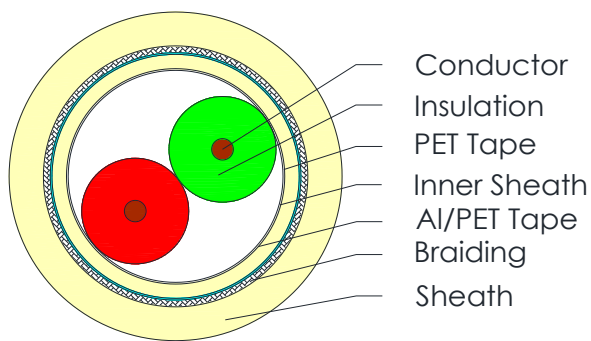


C5077, C4267

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper
Insulation	Foam skinned Polyethylene Color: Red and Green
Twisting	Two cores twisted together
Wrapping tape	PET Tape
Inner Sheath	PVC or HFFR-LSZH
Screen	Al/PET Tape
Braiding	Tinned copper wire
Sheath	Oil resistant Halogen Free Fire Retardancy (HFFR-LSZH) Color: Chrome RAL 7037 or UV Resistant Flame-Retardant Polyvinyl Chloride (PVC) Color: Violet
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	C5077	C4267
Sheath Compound	HFFR	PVC
Conductor Gauge (AWG)	22	
Nom. Diameter Insulation (mm)	2.51	
Nom. Inner sheath Diameter	5.80	
Braiding Wire diameter (AWG)	36	
Braiding Coverage (%)	65	
Nom. sheath Thickness (mm)	1.10	
Nom. Overall Diameter (mm)	8.60	
Operating Temperature (Moving installation) (°C)	-15 to +80	-30 to +60
Operating Temperature (Fixed installation) (°C)	-45 to +80	-45 to +80
Min. Bend Radius (install)(mm)	86	
Max. Pulling Tension (N)	220	

Electrical Characteristics at 20°C

Part Number	C5077	C4267
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	
Test voltage Conductor to conductor for 3 sec. (Vdc)	2500	
Test voltage Conductor to Screen for 3 sec. (Vdc)	2500	
Voltage Rating (Vrms)	300	
Max. Current (A)	2.3	

Reference Standards

(BS) EN 50290-2-27	IEC 61034 (HFFR)
IEC 60228	IEC 60754-1 & -2 (HFFR)
IEC 60332-3-24 (HFFR)	IEC 60332-1 (PVC)
IEC 60811-404	Radiation resistance IEC 544 (CERN)
BS 7655 section 6.1 table 1. LTS 3	RoHS directives