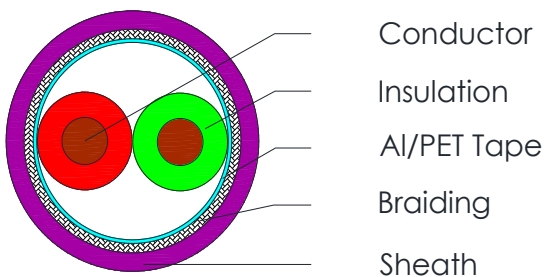


C5070

Applications

DataBus ISA/SP-50 Profibus Cable.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper wire
Insulation	Foam Polyethylene Core 1: Red Core 2: Green
Screen	Aluminium/Polyester, 100% Coverage
Braiding	Tinned Copper Wire
Sheath	Sunlight Resistant HFFR-LSZH Standard colour: Purple
Standard Put Up Length	305 meters

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

C5070

Physical Characteristics

Part Number	C5070
No of pairs	1
Nom. Conductor Size (AWG)	22
Nom. Diameter Conductor(mm)	0.66
Braiding Coverage (%)	65
Nom. Overall Diameter(mm)	8.0
Operating Temperature (°C)	-30 to +75
Max. Recommended Pulling Tension (N)	222
Min. Bend Radius (install)(mm)	80
Nominal Cable Weight (kg/km)	77.3

Electrical Characteristics at 20°C

Part Number	C5070
Input Impedance at 3-20MHz	150±15
Nom. DC Resistance Conductor (Ω/km)	52.5
Nom. Pair shield DC Resistance (Ω/km)	12.8
Nom. Mutual Capacitance (pF/m)	27.9
Max. Capacitance Unbalance at 1KHz (pF/km)	1000
Nominal Inductance (μH/m)	0.93
Max. Recommended Current at 25°C (Amps)	2.3
Max. Operating Voltage (Vrms)	300
Max. Attenuation at 0.20MHz (dB/100m)	1.10
Max. Attenuation at 4.0MHz (dB/100m)	2.65
Max. Attenuation at 16.0MHz (dB/100m)	5.40

Reference Standards

(BS) EN 50290-2	IEC 61034-1&-2
IEC 60332-3-24	IEC 60754-1&-2
RoHS directives	