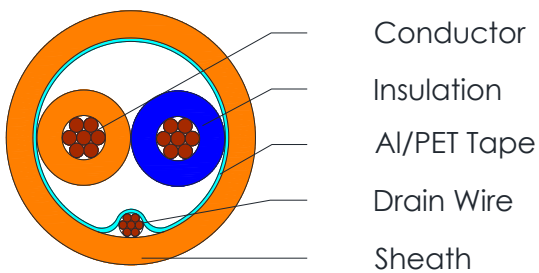


C507 I

Applications

DataBus ISA/SP-50 FOUNDATION Fieldbus or Profibus Cable.

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Tinned Copper wire
Insulation	Polyolefin Core 1: Orange Core 2: Blue
Screen	Aluminium/Polyester, 100% Coverage
Drain Wire	Tinned Copper Wire
Sheath	HFFR-LSZH Standard colour: Orange
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.

C5071

Physical Characteristics

Part Number	C5071
No of pairs	1
Conductor Size (AWG)	18(7×26)
Drain Wire Size (AWG)	20(7×28)
Nom. Overall Diameter(mm)	6.3
Operating Temperature (°C)	-20 to +90
Max. Recommended Pulling Tension (N)	267
Min. Bend Radius (install)(mm)	63.5
Nominal Cable Weight (kg/km)	56.6

Electrical Characteristics at 20°C

Part Number	C5071
Nom. Impedance at 0.031MHz	100
Nom. DC Resistance Conductor (Ω/km)	19.3
Nom. DC Resistance Screen (Ω/km)	24.6
Nom. Capacitance core to core (pF/m)	79
Nom. Capacitance core to rest (pF/m)	148
Max. Capacitance Unbalance (pF/m)	3.937
Nominal Inductance (μH/m)	0.63
Nom. Velocity of Propagation (%)	66
Max. Attenuation at 0.039MHz (dB/100m)	0.30
Max. Propagation Delay Change from 7.812KHz to 39.06KHz (pS/M)	1698
Max. Recommended Current at 25°C (Amps)	5.2
Max. Operating Voltage (Vrms)	300

Reference Standards

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