

Device Bus Cable

16AWG & 20AWG, Individually Screened

PVC Sheath

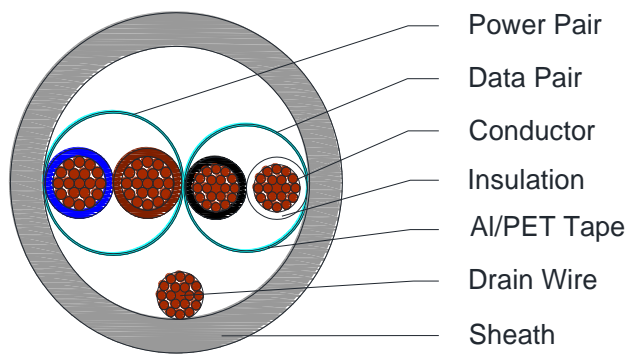


CI180

Applications

Device Bus cable for Honeywell Smart Distributed Systems.

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Tinned Copper Wire
Insulation	PVC (Power) Blue – brown And FPE (Data) Black - white
Pair	Two wires twisted to a pair
Individual Screen	Aluminium/Polyester Foil tape
Lay-Up	Two individually screened pairs stranded
Drain Wire	Tinned Copper Wire
Outer Sheath	Polyvinyl Chloride (PVC) Standard colour: Grey
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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C1180

Physical Characteristics

Part Number	C1180	
Pair Number	1	1
Conductor size (AWG)	16	20
Conductor Construction(AWG)	19x29	19x32
Insulation Material	PVC	FPE
Screen Coverage (%)	115	115
Nom. Drain wire size (AWG)	20(19x32)	
Nom. Overall Diameter(mm)	10.1	
Operating Temperature (°C)	-30 °C to +80 °C	
Min. Bend Radius (install) (mm)	100	
Max. Recommended Pulling Tension (N)	540	

Electrical and Transmission Characteristics at 20°C

Part Number	C1180	
Conductor Construction(AWG)	19x29	19x32
Max. DC Resistance Conductor (Ω /km)	14.7	32.8
Max. DC Resistance Screen (Ω /km)	18.0	
Capacitance conductor to conductor (Pf/m)	-	39
Nominal Impedance (Ω)	-	120
VOP (%)	-	76
Max. Recommended Current at 25°C (Amps)	7.0	3.5
Max. Operating Voltage (Vrms)	300	
Min. Insulation Resistance ($M\Omega$ *km)	10000	

Nominal Attenuation at 20°C

Frequency (MHz)	20AWG Max. Attenuation (dB/100m)
0.125	0.60
0.50	1.15
1.00	1.55

Reference Standards

(BS) EN 50290-2	IEC 60228
IEC 60332-1	RoHS directives