

DeviceNet Cable

22 & 24AWG Multi-conductor Device Bus

ODVA Class 2 Thin

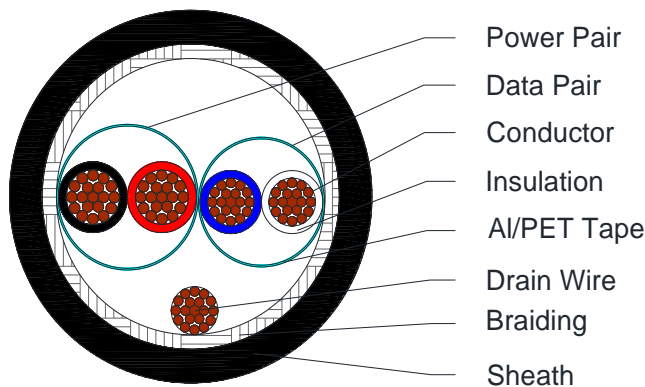


C1157, C1177

Applications

Individual screened paired multi conductor cable suitable for Class 2 thin ODVA DeviceNet applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Stranded Copper wires
Insulation	Pair 1: PVC Black/Red (Power) PVC Pair 2: Blue/White (Data) FPE
Pair	Two wires twisted together
Screen	Each pair individually screened with an Aluminium/Polyester foil tape
Drain Wire	Tinned Copper wire
Braiding	Tinned Copper wire
Sheath Material	UV and Oil resistant PVC or Chlorinated PE
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.

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Physical Characteristics

Part Number	C1157		C1177	
Pair Number	1	1	1	1
Conductor size (AWG)	22	24	22	24
Conductor Construction(AWG)	19x34	19x36	19x34	19x36
Insulation Material	PVC	FPE	PVC	FPE
Screen Coverage (%)	115	115	115	115
Nom. Drain wire size (AWG)	24 (19 x 34)			
Braiding Coverage (%)	65			
Sheath Material	PVC		PE	
Nom. Radial Thickness Sheath (mm)	0.8			
Nom. Overall Diameter(mm)	7.1			
Operating Temperature (°C)	-20 / +75			
Max. Recommended Pulling Tension (N)	280			
Min. Bend Radius (install) (mm)	71			
Nominal Cable Weight (kg/km)	63		60	

Electrical Characteristics

Part Number	C1157		C1177	
Conductor Construction(AWG)	19x34	19x36	19x34	19x36
Max. DC Resistance Conductor (Ω /km)	57.4	91.8	57.4	91.8
Max. DC Resistance Screen (Ω /km)	10.5			
Capacitance conductor to conductor (pF/m)	-	39	-	39
Nominal Impedance (Ω)	-	120	-	120
VOP (%)	-	75	-	75
Max Delay (ns/m)	-	4.46	-	4.46
Inductance (μ H/m)	0.82	0.72	0.82	0.72
Max. Recommended Current at 25°C (Amps)	4.0	1.7	4.0	1.7

Attenuation

Frequency (MHz)	24AWG Max. Attenuation (dB/100m)
0.125	0.95
0.50	1.64
1.00	2.30

Reference Standards

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