Device Bus for ODVA Cable

Individual screen 1PR 20AWG & 1PR 18AWG

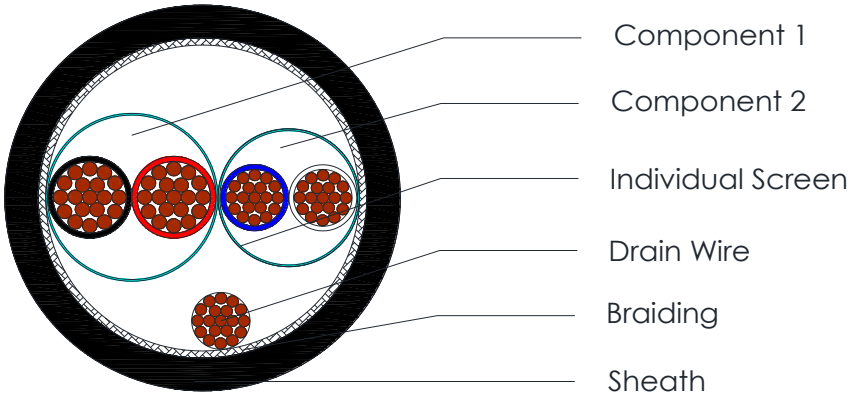
PVC Sheath

C4270

Applications

Multi Conductor-Device Bus for ODVA Device Net.

Cross Section Drawing



Design

Component		Properties
1 Power Cores	Conductor	Tinned stranded copper wire
	Insulation	FR-PVC Colour: Red, Black
	Screen	Aluminum/Polyester tape
2 Data Pair	Conductor	Tinned stranded copper wire
	Insulation	Foamed HDPE Colour: Blue, White
	Screen	Aluminum/Polyester tape
Overall	Drain Wire	Tinned stranded copper wire
	Braiding	Tinned copper wire
Sheath		Sunlight/Oil Resistant PVC Standard Colour: Black
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	C4270		
Component No.	1	2	Overall
Core No.	2	2	-
Nom. Conductor Size (AWG)	18 (19*30)	20 (19*32)	-
Screen Coverage (%)	115	115	-
Drain wire construction (AWG)	-	-	20 (19*32)
Braiding Coverage (%)	-	-	65
Nom. Overall Diameter (mm)	-	-	9.6
Min. Bending radius (mm)	-	-	96
Max. Pulling Tension (N)	-	-	290
Nom. Cable weight (kg/km)			101
Operating Temperature Range (°C)	-	-	-20 to +75

Electrical Characteristics at 20°C

Conductor Gauge (AWG)	Max. Conductor Resistance (Ohm/km)	Max. Conductor Resistance screen (Ohm/km)	Capacitance core to core (pF/m)	Impedance (Ohm)	Nom. Velocity of Propagation (%)	Max. Delay (ns/m)	Operating Voltage (Vrms)	Max. Attenuation (dB)		
								0.125 MHz	0.5MHz	1.0MHz
20	35.8	10.5	40	120	75	4.46	300	0.95	1.64	2.30
18	22.7		-	-	-	-	300	-	-	-

Reference Standards

IEC 60228	EN 50290-2
IEC 60332-1	RoHS directives