

Lon Works Cables, 16AWG, Unscreened, HFFR/LSZH Sheath

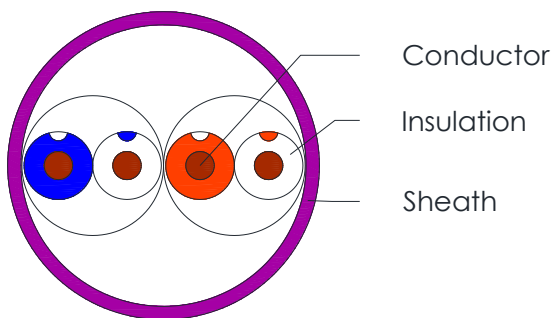


C5742, C5743

Applications

Lon Works Interface Bus systems

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper Wire
Insulation	Solid PE Pair 1, WHITE/Blue + BLUE/White Pair 2, WHITE/Orange + ORANGE/White
Lay Up	Two wires twisted to a pair.
Cable Core	one pair or two pairs stranded
Sheath Material	Halogen-Free Flame Retardancy (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.

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C5742, C5743

Physical Characteristics

Part Number	C5742	C5743
Number of pairs	1	2
Nom. Diameter Conductor (AWG)	16	
Nom. Insulation Diameter (mm)	2.40	
Nom. Radial Thickness Sheath (mm)	0.6	
Nom. Overall Diameter (mm)	6.0	9.8
Operating Temperature (°C)	-25 / +75	
Max. Recommended Pulling Tension (N)	95	190
Min. Bend Radius (install) (mm)	60	98
Nominal Cable Weight (kg/km)	35	67

Electrical Characteristics

Part Number	C5742	C5743
Nominal Impedance (Ω)	100	
Max. DC Resistance Conductor (Ω /km)	15.47	
Capacitance conductor to conductor (pF/m)	46	
Max. Recommended Current at 25°C (Amp)	6.25	
Max. Operating Voltage (Vrms)	300	
Nom. Attenuation (dB/100m)		
1MHz	1.3	
4MHz	2.6	
10MHz	4.3	
16MHz	5.5	
20MHz	6.0	
Nom. NEXT (dB)		
1MHz	59	
4MHz	50	
10MHz	44	
16MHz	41	
20MHz	40	

Reference Standards

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