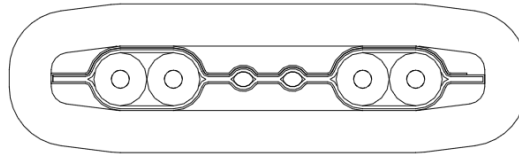




3M™ Twin Axial Cable SL9000 Series



Scope

This specification covers physical and electrical properties for the following 3M™ Twin Axial Cable SL9000 Series: 30 AWG 100 Ohm Two Pair Flat PVC and Halogen-Free Jacketed Cable
PVC Jacket Black SL90J6-1KN-BS2P • Halogen Free (HF) Jacket SL90J6-1HN-BS2P • PVC Jacket Red SL90J6-1KN-RS2P • PVC Jacket Blue SL90J6-1KN-LS2P

Physical Description

Pair Construction	..... Wire	30 AWG Solid Copper Silver Plated
	Insulation	Solid Polyolefin (natural color)
	Wire/Insulated Diameter	0.25/0.787 mm
Ground Wire	.....	30 AWG Solid Copper Tin Plated
Primary Shield	.....	Aluminum/Polyester at 0.022 mm total thickness ● Aluminum in
External Shield	.....	Copper/Polyester at 0.045 mm total thickness ● Copper out
		Isolation between primary shield and external shield
Jacket	.....	PVC (Black) at 0.38 mm minimum thickness <u>or</u> Halogen Free (Black) at 0.38 mm thickness <u>or</u> PVC (Red) at 0.38 mm minimum thickness <u>or</u> PVC (Blue) at 0.38 mm minimum thickness
Approvals and Compliance	.....	PVC -20 to 80°C 150V HF -20 to 80°C 150V RoHS Compliant (see below) Halogen Free Statement (for halogen free jacket only) (see below)
Cable Marking		
Internal Cable	.....	3M (TM) Twin Axial Cable SL8802/04-40DN5-00 30AWG Silver (Lot Code)
Jacket Marking	.....
	PVC Version:	
		3M SL90J6-1KN-BS2P 30AWG 100 OHM 80C 150V 3M NU EU<50V RoHS Compliant (Lot Code)
		<u>or</u>
		3M SL90J6-1KN-RS2P 30AWG 100 OHM 80C 150V 3M NU EU<50V RoHS Compliant (Lot Code)
		<u>or</u>
		3M SL90J6-1KN-LS2P 30AWG 100 OHM 80C 150V 3M NU EU<50V RoHS Compliant (Lot Code)
	HF Version:	3M SL90J6-1HN-BS2P 30AWG 100 OHM 80C 150V 3M NU EU<50V RoHS Compliant (Lot Code)

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Electrical Properties

- Impedance 100 +/- 5 ohms
- Capacitance 50 pF/m
- Propagation Delay 4.95 ns/m
- Intrapair Skew (SFF-8416 3m) <10 ps/m typical
- Withstanding Voltage 1500V
- Insulation Resistance 1000 Megohms
- Conductor Resistance (max)..... 373 Ω/km
- Attenuation (typical) Resonance-Free

Frequency (GHz)	0.5	1.0	2.0	5.0	10.0
Insertion Loss (dB/m)	-0.85	-1.2	-1.7	-3.2	-4.9

Mechanical Properties

Bend Radius 2.5 mm (fold-to-install applications)

Unless otherwise noted, references to industry specifications are intended to indicate substantial compliance to the material elements of the specification. Such references should not be construed as a guarantee of compliance to all requirements in a given specification.

Halogen-free is defined as both (1) no halogen compounds are intentionally added to the product or used in the manufacturing process for the product, and (2) any impurities present are less than 900 ppm bromine, less than 900 ppm chlorine, and/or less than 1500 ppm total bromine and chlorine. The latter are the levels set forth in certain industry standards for printed circuit boards, such as the International Electrotechnical Commission (IEC) 61249-2-21 standard.

"RoHS 2011/65/EU" means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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