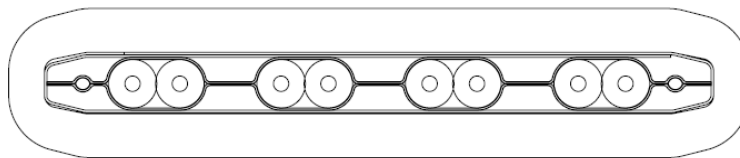


3M™ Twin Axial Cable SL9000 Series

100 Ohm Four Pair Flat PVC Jacketed External Cable

PLCC CL2 Only: 30 AWG SL90M3-1PN-BS2P • 28 AWG SL90M1-1PN-BS2P

PLCC CL2/FT4: 30 AWG SL90M3-1NN-BS2P • 28 AWG SL90M1-1NN-BS2P



*Example Construction Above – see drawings for specific constructions and product dimensions

Physical Description

Signal Pair Construction

Wire 30 AWG or 28 AWG • Solid Copper Silver Plated

Insulation Solid Polyolefin (natural color)

Wire/Insulated Diameter 30 AWG 0.25/0.79 mm • 28 AWG 0.32/0.99 mm

Ground Wire 30 AWG or 28 AWG • Solid Copper Tin Plated

Primary Shield Aluminum/Polyester at 0.022 mm total thickness • Aluminum In
Longitudinal Construction • 100% Coverage

External Shield Copper/Polyester at 0.043 mm total thickness • Copper Out
Longitudinal Construction • 100% Coverage

Isolation between primary shield and external shield

Jacket PVC (Black) at 0.66 mm minimum thickness

Approvals and Compliance PLCC CL2 Version: UL File E118773 CL2 75C 150V

PLCC CL2/FT4 Version: UL File E118773 CL2 75C 150V FT4

RoHS Compliant (see back)

Cable Marking

Internal Cable

3M™ Twin Axial Cable SL8802/08-30DN5-00 30AWG Silver (Lot Code) **or**

3M™ Twin Axial Cable SL8802/08-42CN5-00 28AWG Silver (Lot Code)

Jacket Marking

CL2 Only Versions

3M L90M3-1PN-BS2P 30AWG 4 PAIRS 100 Ohm (UL) CL2 75C 3M NU EU<50V RoHS Compliant
(Lot Code) **or**

3M SL90M1-1PN-BS2P 28AWG 4 PAIRS 100 Ohm (UL) CL2 75C 3M NU EU<50V RoHS Compliant
(Lot Code)

CL2/ FT4 Versions

3M SL90M3-1NN-BS2P 30 AWG 4 PAIRS 100 Ohm (UL) CL2 75C 3M NU FT4 EU<50V RoHS
Compliant (Lot Code) **or**

3M SL90M1-1NN-BS2P 28 AWG 4 PAIRS 100 Ohm (UL) CL2 75C 3M NU FT4 EU<50V RoHS
Compliant (Lot Code)

Electrical Properties

Impedance 100 +/- 5 ohms

Capacitance 50 pF/m (Typical)

Propagation Delay 4.95 ns/m (Typical)

Intrapair Skew (SFF-8416 3m) <10 ps/m

Withstanding Voltage 1500V

Insulation Resistance 1000 Megohms

Conductor Resistance (max) 30 AWG 373 Ω/km • 28 AWG 220 Ω/km
 Attenuation (typical) Resonance-Free

| Frequency (GHz) | 0.5 | 1.0 | 2.0 | 5.0 | 10.0 |
|-----------------|-------|-------|------|------|------|
| 30 AWG (dB/m) | -0.85 | -1.2 | -1.7 | -3.2 | -4.9 |
| 28 AWG (dB/m) | -0.67 | -0.97 | -1.4 | -2.4 | -3.8 |

Mechanical Properties

Bend Radius 2.5 mm (fold-to-install applications)
 31 mm (repeated) (SFF-8417 1000 cycles)

RoHS Compliance Statement

"RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. 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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