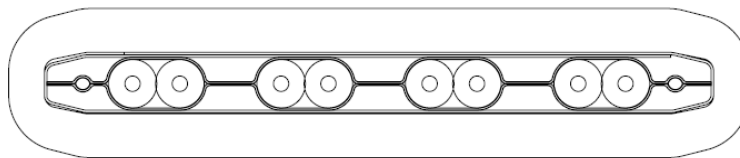


# 3M™ Twin Axial Cable SL9000 Series

## 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<br>Longitudinal Construction • 100% Coverage                             |
| External Shield .....          | Copper/Polyester at 0.043 mm total thickness • Copper Out<br>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<br>PLCC CL2/FT4 Version: UL File E118773 CL2 75C 150V FT4<br>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.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

**3M is a trademark of 3M Company.**

**Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

**Warranty; Limited Remedy; Limited Liability**

This product will be free from defects in material and manufacture for one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**