

3M™ Twin Axial Cable SL8800 Series

30 AWG 100 ohm Internal Cable



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

Physical Description

Signal Pair Construction

Wire	30 AWG Solid Copper - Silver or Tin Plated
Insulation	Solid Polyolefin (natural color)
Wire/Insulated Diameter ...	0.25/0.79 mm

Auxiliary Signal Lines (if included)

Wire	30 AWG Solid Copper Tin Plated
Insulation	Solid Polyolefin (natural color)
Wire/Insulated Diameter ...	0.25/0.56 mm

Ground Wire	30 AWG • Solid Copper Tin Plated <u>or</u> 32 AWG • Stranded 7/40 Copper Tin Plated
Primary Shield	Aluminum/Polyester at 0.022 mm total thickness • Aluminum In Longitudinal Construction • 100% Coverage
Approvals and Compliance	UL AWM Style 21008 File E42769

-20°C to 80°C • 150V • Horizontal Flame

RoHS Compliant (see back) • Halogen Free (see back)

Cable Marking	3M (<i>Part Number</i>) 30 AWG (<i>Signal Plating</i>) (<i>Lot</i>)
Example	3M SL8801/12-10DA5-00 30 AWG Silver TW602-1

Electrical Properties (Signal Pairs)

Impedance	100 +/- 5 ohms
Capacitance	50 pF/m (Typical)
Propagation Delay	4.95 ns/m (Typical)
Intrapair Skew (TDT 3m).....	<10 ps/m
Withstanding Voltage	1500 V
Insulation Resistance	1000 Megohms
Conductor Resistance (max)	370 Ω/km
Attenuation (typical)	Resonance-Free

Frequency (GHz)	0.5	1.0	2.0	5.0	10.0	15.0	20.0
Tin Plating (dB/m)	-0.90	-1.4	-2.2	-4.0	-7.5	-10.9	-14.6
Silver Plating (dB/m)	-0.85	-1.2	-1.7	-3.2	-4.9	-6.8	-8.8

Mechanical Properties

Minimum Bend Radius	1.0 mm (one-time fold)
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RoHS Compliance Statement

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (including decaBDE); or (b) 0.01% (by weight) for cadmium.

Halogen Free Compliance Statement

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.

Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

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