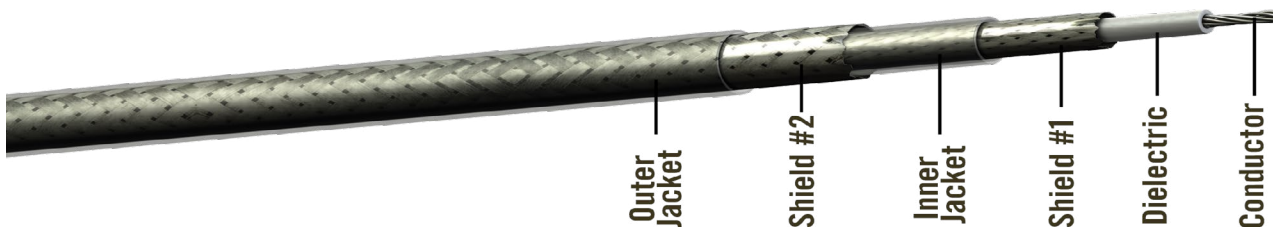


# L2201TX



## CABLE CONSTRUCTION

- Conductor:** Tin-Plated Copper
- Dielectric:** FEP
- Shield #1:** Tin-Plated Copper Braid
- Inner Jacket:** Extruded FEP, Clear
- Shield #2:** Tin-Plated Copper Braid
- Outer Jacket:** Extruded FEP, Clear

L2201TX is a 50 ohm triaxial cable that is used in systems that are susceptible to RFI and noise-generating devices, such as radar or other systems that need to be isolated. To improve the signal-to-noise ratio and noise pick-up, this cable has an additional outer braid shield insulated from the signal carrying conductors.

For maximum shielding efficiency, triaxial connectors should be used where the isolation of the two shields is maintained through the connectors. Connectors for S44191 and S44193 coax cables can be used to terminate the “inner coax” of L2201TX.

## PHYSICAL DATA

- Conductor:** 20 AWG Stranded TPC
- Temperature Range:** -55° to 150°C
- Outer Diameter:** in (mm) 0.245 (6.22)
- Minimum Bend Radius:** in (mm) 1.3 (31.75)
- Weight:** lbs/100 ft (kg/100 m) 6.0 (8.9)

## ENVIRONMENTAL DATA

- Skydrol Resistant:** SAE AS4373E, Method 601
- RoHS Compliant:** RoHS Directive 2002/95/EC)
- Flame / Smoke Requirements:** FAR Part 25.869 (a)App. F, Part 1, (a)(3)
- Berry Specialty Metals Compliance:** DFARS v252.225-7014, Alt 1

## ELECTRICAL DATA

- Impedance:** 50 ohms
- Capacitance:** pF/ft (m) 29.0 (95.1)
- Velocity of Propagation:** 70%
- Time Delay:** ns/ft (m) 1.45 (4.76)
- Shielding Effectiveness:** dB/min -75
- DC Resistance:** ohms/1000 ft (m) 9.7 (31.8)

## ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (dB/100 m)
@ 0.4 GHz	10.6/11.7	(34.8/38.4)
@ 1.0 GHz	20.4/22.4	(66.9/73.5)
@ 1.6 GHz	29.1/32.0	(95.5/105.0)
@ 5.0 GHz	72.7/80.0	(238.5/262.5)

**Formula for Attenuation:**  
 $(K1 \times \sqrt{F(\text{MHz})}) + (K2 \times F(\text{MHz}))$

**K Values (nom loss):** K1 =0.335 K2 = 0.0098

*All values nominal, unless otherwise noted*

**L2201TX 50 OHM TRIAXIAL CABLE**

# CONTACTS/CONNECTORS FOR L2201TX

## ARINC CONTACTS

PART #	CONTACT TYPE
190119	404 Size 1 Socket
190101	600 Size 1 Socket
190102	600 Modified Size 1 Socket
110123	404/600 Size 5 Socket

## M39012 CONNECTORS

PART #	CONNECTOR TYPE
190112	BNC Straight Plug
190113	BNC 90° Plug
190127	BNC Inline Jack
111202	BNC Bulkhead Jack
190106	C Straight Plug
190107	C 90° Plug
190104	HN Straight Plug
190105	HN 90° Plug
190110	N Straight Plug
190111	N 90° Plug
110087	N Bulkhead Jack
110576	QMA Straight Plug
110577	QMA 90° Plug
110198	SMA Straight Plug
110207	SMA 90° Plug
190108	TNC Straight Plug
190109	TNC 90° Plug
190131	TNC 75° Plug
190123	TNC Inline Jack
190121	TNC Bulkhead Jack