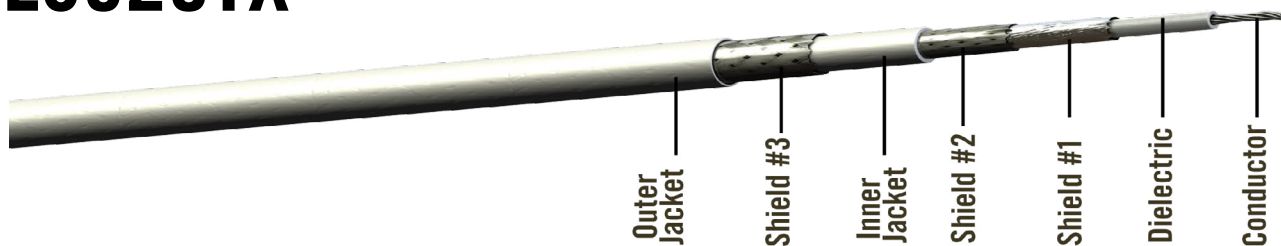


L8620TX



L8620TX 50 OHM TRIAXIAL CABLE

CABLE CONSTRUCTION

- Conductor:** Silver-Plated Copper
- Dielectric:** FEP
- Shield #1:** Aluminum/Polyimide Composite
- Inner Jacket:** Extruded FEP, White
- Shield #2:** Tin-Plated Copper Braid
- Shield #3:** Tin-Plated Cooper Braid
- Outer Jacket:** Extruded ETFE, White (Laser Markable)

L8620TX 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 S86208 and S88207 coax cables can be used to terminate the “inner coax” of L8620TX.

PHYSICAL DATA

- Conductor:** 21 AWG Stranded SPC
- Temperature Range:** -55° to 150°C
- Outer Diameter:** in (mm) 0.173 (4.39)
- Minimum Bend Radius:** in (mm) 0.9 (21.59)
- Weight:** lbs/100 ft (kg/100 m) 2.9 (4.3)

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) 28 (91.9)
- Velocity of Propagation:** 79%
- Time Delay:** ns/ft (m) 1.28 (4.20)
- Shielding Effectiveness:** dB/min -90
- DC Resistance:** ohms/1000 ft (m) 11.6 (38.1)

ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (dB/100 m)
@ 0.40 GHz	9.1/10.0	(29.9/32.8)
@ 1.0 GHz	15.1/16.6	(49.5/54.5)
@ 1.6 GHz	19.7/21.7	(64.6/71.2)
@ 5.0 GHz	38.9/42.8	(127.6/140.4)

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

K Values (nom loss): K1 =0.416 K2 = 0.0019

All values nominal, unless otherwise noted

CONTACTS/CONNECTORS FOR L8620TX

ARINC CONTACTS

PART #	CONTACT TYPE
190819	404 Size 1 Socket
190801	600 Size 1 Socket
190802	600 Modified Size 1 Socket
190803	404/600 Size 5 Socket
190837	Size 8 Pin
190829	Size 8 Socket

D-SUB CONTACTS

PART #	CONTACT TYPE
110286	Size 8 Pin
111113	Precision 50 ohm Size 8 Pin
110212	Size 8 Socket
110260	Precision 50 ohm Size 8 Socket

M39029 FOR MIL-C-38999 CONTACTS

PART #	CONTACT TYPE
190838	Size 8 Pin
190838-01	Size 8 Pin (w/ Environmental Seal)
190839	Size 8 Socket
190839-01	Size 8 Socket (w/ Environmental Seal)
190866	Size 12 Pin
190867	Size 12 Socket

M39012 CONNECTORS

PART #	CONNECTOR TYPE
190812	BNC Straight Plug
190813	BNC 90° Plug
190806	C Straight Plug
190807	C 90° Plug
190805	HN 90° Plug
190810	N Straight Plug
190811	N 90° Plug
190822	N Bulkhead Jack
110566	QMA Straight Plug
110567	QMA 90° Plug
190814	SMA Straight Plug
190815	SMA 90° Plug
190825	SMA Inline Jack
190808	TNC Straight Plug
190809	TNC 90° Plug
190809-L	TNC 90° Plug (Long)
190821	TNC Bulkhead Jack