

CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. Tin-Plated Copper Braid
3. Silver-Plated Copper Helical Strip
4. Foamed FEP Dielectric
5. Silver-Plated Copper



This coaxial cable has been designed for 75 ohm applications such as high-definition digital or baseband analog video. This cable is ideally suited for both SMPTE 292M (HD-SDI) and SMPTE 424M (3G-SDI) applications because of its low VSWR & attenuation characteristics. Refer to the statement below for the maximum recommended transmission lengths for this cable.

The construction of V73263 includes a silver-plated copper center conductor, a foamed FEP dielectric and is double-shielded with a helically-wound silver-plated copper strip and a tin-plated copper braid. This combination yields better than -110 dB shielding effectiveness. ETFE jacketing protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. It is laser-markable.

It is Skydrol resistant, RoHS compliant and meets the FAA flammability requirements of FAR Part 23 and 25, Appendix F; complies with MIL-C-17 as applicable.

Because of the critical effect of impedance-matched terminations, a comprehensive family of 75 ohm connectors is available.

RECOMMENDED MAX TRANSMISSION LENGTHS:

- SMPTE 292M (HD-SDI): 125'
- SMPTE 424M (3G-SDI): 85'

(Max length based on 20 dB max. Contact system OEM to verify max loss allowed)

PHYSICAL DATA

- Conductor 26 AWG Stranded SPC
- Tensile Strength: lbs (kg) Approx. 8.1 (3.6)
- Operating Temperature -55° to +150°C
- Outer Diameter: in (mm) 0.13 (3.18)
- Minimum Bend Radius: in (mm) 0.65 (16.51)
- Weight: lbs/100 ft (kg/100 m) 1.5 (2.2)

ELECTRICAL DATA

- Impedance: ohms 75
- Capacitance: pF/ft (m) 16.0 (52.5)
- Velocity of Propagation: % 80.0
- Time Delay: ns/ft (m) 1.27 (4.17)
- RF Shielding Effectiveness: dB/min -110
- DC Resistance: ohms/1000 ft (m) 34.5 (113.2)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @400 MHz 10.2 / 11.3 (33.5 / 37.1)
 - @750 MHz 14.2 / 15.7 (46.6 / 51.5)
 - @1.50 GHz 20.6 / 22.7 (67.6 / 74.5)
 - @3.00 GHz 30.3 / 33.3 (99.4 / 109.3)
- K Values (nom loss): K1 = 0.487, K2 = 0.0012
- Formula for Attenuation: $(K1 * \sqrt{F(MHz)} + (K2 * F(MHz)))$

All values nominal unless otherwise noted



ARINC

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190703	Size 5 Socket 50 ohm	190730	Size 16 Socket
190733	Size 5 Socket 75 ohm	110237	Mil-C-81659 Size 9 Socket
190729	Size 8 Socket 50 ohm		
190732	Size 8 Socket 75 ohm		

D-SUB

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
110235	Size 8 Pin 50 ohm	110236	Size 8 Socket 50 ohm
190763	Size 8 Pin 75 ohm	190764	Size 8 Socket 75 ohm

M39029 for MIL-C-38999 Connector

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190738	Size 8 Pin 50 ohm	190739	Size 8 Socket 50 ohm
190738-01	Size 8 Pin 50 ohm w/seal	190741	Size 8 Socket 75 ohm
190740	Size 8 Pin 75 ohm	190741-01	Size 8 Socket 75 ohm w/seal
190740-01	Size 8 Pin 75 ohm w/seal	190767	Size 12 Socket
190766	Size 12 Pin	190734	Size 16 Socket
190735	Size 16 Pin		

M39012

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190712	BNC Straight Plug	110218	RCA Straight Plug
110717	BNC HD Straight Plug	190736	SMB 75 ohm Socket
110249	BNC 90° Plug	110285	SMC 75 ohm Female Plug
190745	BNC Mini Straight Plug	190768	SMC 75 ohm 90° Female Plug
110532	BNC Mini 90° Plug	190748	SMZ 75 ohm Straight Plug
190727	BNC Inline Jack	190714	SMA Straight Plug
190728	BNC Bulkhead Jack	190708	TNC Straight Plug
110677	F Straight Plug	190721	TNC Bulkhead Jack



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