

IC V75268

75 OHM COAXIAL CABLE

26 AWG Stranded SPC

CABLE CONSTRUCTION

- 1. Fluoropolymer Jacket (Red)
- 2. Tin-Plated Copper
- 3. Foamed Fluoropolymer Dielectric
- 4. Silver-Plated Copper



This coaxial cable has been designed for 75 ohm applications such as cabin entertainment analog and digital video. Compared with M17/94-RG179, this cable is substantially stronger (more than twice the tensile strength) and has better attenuation characteristics.

At the heart of V75268 is a silver-plated copper center conductor nearly 60% larger than in RG179 — yet the overall diameter of the cable increases by only 22%. To achieve the correct impedance in this proportionately-smaller diameter, a foamed fluoropolymer dielectric having a high velocity of propagation is employed to surround the center conductor. The cable is 95% (minimum) shielded with a braid of tin-plated copper. A distinctive red fluoropolymer jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

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 259M (SD-SDI Component): 461'
- SMPTE 259M (SD-SDI Widescreen): 394'

(Max length based on 30 dB max. Contact system OEM to verify max loss allowed)

PHYSICAL DATA

Conductor

Tensile Strength: lbs (kg) Approx.	8.1 (3.6)
Operating Temperature	-55° to +150°C
• Outer Diameter: in (mm)	0.12 (3.10)
Minimum Bend Radius: in (mm)	0.60 (15.24)
• Weight: lbs/100 ft (kg/100 m)	1.3 (1.9)

• Formula for Attenuation:

FA	
	75
	16.0 (52.5)
	80.0
	1.27 (4.17)
dB/min	-50
ft (m)	34.5 (113.2)
dB/100 ft	(dB/100 m)
5.9 / 6.5	(19.4 / 21.3)
6.9 / 7.6	(22.6 / 24.9)
8.6 / 9.5	(28.2 / 31.2)
10.1 / 11.1	(33.1 / 36.4)
K1 = 0.478	3, K2 = 0.0029
	IB/min ft (m) dB/100 ft 5.9 / 6.5 6.9 / 7.6 8.6 / 9.5 10.1 / 11.1

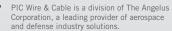
All values nominal unless otherwise noted

 $(K1 * \sqrt{F(MHz)} + (K2 * F(MHz))$













PIC V75268 CONNECTORS

ARINC			
PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190703 190733 190729	Size 5 Socket 50 ohm Size 5 Socket 75 ohm Size 8 Socket 50 ohm	190730 110237	Size 16 Socket Mil-C-81659 Size 9 Socket
190732	Size 8 Socket 75 ohm		
D-SUB			
PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
110235 190763	Size 8 Pin 50 ohm Size 8 Pin 75 ohm	110236 190764	Size 8 Socket 50 ohm Size 8 Socket 75 ohm
M39029 for	MIL-C-38999 Connecto	or	
PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190738 190738-01 190740	Size 8 Pin 50 ohm Size 8 Pin 50 ohm w/seal Size 8 Pin 75 ohm	190739 190741 190741-01	Size 8 Socket 50 ohm Size 8 Socket 75 ohm Size 8 Socket 75 ohm w/sea
190740-01 190766 190735	Size 8 Pin 75 ohm w/seal Size 12 Pin Size 16 Pin	190767 190734	Size 12 Socket Size 16 Socket
M39012			
PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190712	BNC Straight Plug	110218	RCA Straight Plug
110717 110249	BNC HD Straight Plug BNC 90° Plug	190736	SMB 75 ohm Socket
1 10245 190745	BNC Mini Straight Plug	110285	SMC 75 ohm Female Plug
111069	BNC Mini 90° Plug	190768	SMC 75 ohm 90° Female Plug
190727	BNC Inline Jack	190748	SMZ 75 ohm Straight Plug
190728	BNC Bulkhead Jack	190714	SMA Straight Plug
110677	F Straight Plug	190708	TNC Straight Plug
		190721	TNC Bulkhead Jack

Die Sets Available On Loan Or For Purchase From PIC Refer To Connector Drawing For Tooling Call PIC For Availability







