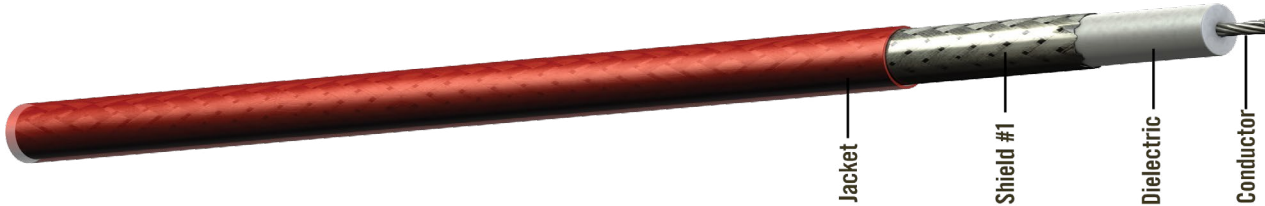


V75268



V75268 75 OHM COAX CABLE

CABLE CONSTRUCTION

Conductor: Silver-Plated Copper
Dielectric: FEP

Shield #1: Tin-Plated Copper Braid
Jacket: Extruded FEP, Red

V75268 is a 75 ohm coaxial cable that is substantially stronger (more than twice the tensile strength) and has better attenuation characteristics than the M17/94-RG179 cables. The V75268's construction features 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. Because of the critical effect of impedance-matched terminations, a comprehensive family of 75-ohm connectors are available.

PHYSICAL DATA

Conductor: 26 AWG Stranded SPC
Temperature Range: -55 to +150°C
Outer Diameter: in (mm) 0.122 (3.1)
Minimum Bend Radius: in (mm) 0.6 (15.24)
Weight: lbs/100 ft (kg/100 m) 1.3 (1.9)

ELECTRICAL DATA

Impedance: 75 ohms
Capacitance: pF/ft (m) 16 (52.5)
Velocity of Propagation: 80%
Time Delay: ns/ft (m) 1.27 (4.17)
Shielding Effectiveness: dB/min -50
DC Resistance: ohms/1000 ft (m) 34.5 (113.2)

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 252.225-7014, Alt 1

ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (dB/100 m)
@ 0.135 GHz	5.9/6.5	(19.4/21.3)
@ 0.180 GHz	6.9/7.6	(22.6/24.9)
@ 0.270 GHz	8.6/9.5	(28.2/31.2)
@ 0.360 GHz	10.1/11.1	(33.1/36.4)

RECOMMENDED MAX TRANSMISSION LENGTHS

SMPTE 259M (SD-SDI Component): f (m) 461 (141)
SMPTE 259M (SD-SDI Widescreen): f (m) 394 (120)

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

K Values (nom loss):
 K1 = 0.478 K2 = 0.0029

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

All values nominal, unless otherwise noted

CONTACTS/CONNECTORS FOR V75268

ARINC CONTACTS

PART #	CONTACT TYPE
190703	Size 5 Socket (50Ω)
190733	Size 5 Socket (75Ω)
190729	Size 8 Socket (50Ω)
190732	Size 8 Socket (75Ω)
190730	Size 16 Socket
110237	Mil-C-81659 Size 9 Socket

M39012 CONNECTORS

PART #	CONNECTOR TYPE
190712	BNC Straight Plug
110717	HD-BNC Straight Plug
111163	HD-BNC 90° Plug
110249	BNC 90° Plug
190745	BNC Mini Straight Plug
111069	BNC Mini 90° Plug
190727	BNC Inline Jack
190728	BNC Bulkhead Jack
110783	BNC HD Straight
110677	F Straight Plug
110218	RCA Straight Plug
190736	SMB Socket (75Ω)
110285	SMC Female Plug (75Ω)
190768	SMC 90° Female Plug (75Ω)
110863	SMZ Straight Female Plug (75Ω)
110865	SMZ 90° Female Plug (75Ω)
190714	SMA Straight Plug
190708	TNC Straight Plug
190721	TNC Bulkhead Jack
190752	MCX 90° Plug (75Ω)

M39029 FOR MIL-C-38999 CONTACTS

PART #	CONTACT TYPE
190738	Size 8 Pin (50Ω)
190738-01	Size 8 Pin 50 ohm w/seal (50Ω)
190740	Size 8 Pin (75Ω)
190740-01	Size 8 Pin (75Ω) (w/ Environmental Seal)
190766	Size 12 Pin
190735	Size 16 Pin
190739	Size 8 Socket (50Ω)
190739-01	Size 8 Socket (50Ω) (w/ Environmental Seal)
190741	Size 8 Socket (75Ω)
190741-01	Size 8 Socket (75Ω) (w/ Environmental Seal)
190767	Size 12 Socket
190734	Size 16 Socket

D-SUB CONTACTS

PART #	CONTACT TYPE
110235	Size 8 Pin (50Ω)
190763	Size 8 Pin (75Ω)
110236	Size 8 Socket (50Ω)
190764	Size 8 Socket (75Ω)

DIN CONNECTOR

PART #	CONNECTOR TYPE
110842	1.0/2.3 DIN Plug