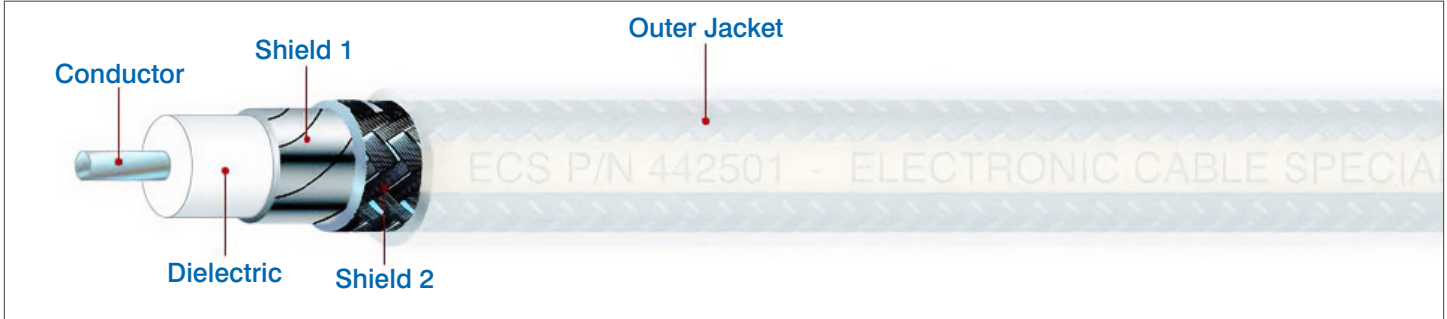


ECS Avionics RF Cable

P/N 442501 | 75 Ω Coaxial



INTRODUCTION

Our ECS Brand Avionics RF cables are optimized specifically for avionics systems that require a low-loss, lightweight, halogen-free cable with frequencies between 0 - 12 GHz. Sold in bulk, as finished assemblies, or within an application-specific kit, these cables have short lead times and are often in stock with same-day shipping available.

ENVIRONMENTAL DETAILS

- » Designed to meet or exceed burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- » Manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

CONNECTOR TYPE	P/N
ARINC 404 Size 9	N/A
ARINC 600 Size 5	CAS452
ARINC 600 Size 8	CAS482
BNC 90°	CBR442
BNC Bulkhead	BBS442
BNC Straight	CBS442
D-Sub #8 Pin	N/A
D-Sub #8 Socket	N/A
F 90°	N/A
F Straight	PL130SC-026
SMA 90°	N/A
TNC Straight	N/A
Trompeter Triax Plug	N/A

PHYSICAL CHARACTERISTICS (NOMINAL)

Outer Diameter	0.130"
Minimum Bend Radius	0.61"
Weight	1.25 lb/100 ft
Temperature Range	-55 to 150 °C
Skydrol™ Resistant	Yes

ELECTRICAL CHARACTERISTICS (NOMINAL)

Impedance	75 Ω	
Capacitance	16.0 pF/ft	
DC Resistance	37.3 Ω/1,000 ft	
Time Delay	1.25 ns/ft	
Velocity of Propagation	76%	
Shield Effectiveness	> 80 dB	
Attenuation	@ 10 MHz	1.8 dB/100 ft
	@ 100 MHz	5.2 dB/100 ft
	@ 950 MHz	17.8 dB/100 ft
	@ 1450 MHz	22.7 dB/100 ft
	@ 2150 MHz	28.7 dB/100 ft

CONSTRUCTION DETAILS

Conductor	26 AWG stranded silver-plated copper
Dielectric	High-temperature fluoropolymer
Shield 1	Aluminum Polyester foil
Shield 2	39 AWG tin-plated copper braid
Outer Jacket	White high-temperature fluoropolymer

Skydrol is a protected trademark of the Eastman Chemical Company.