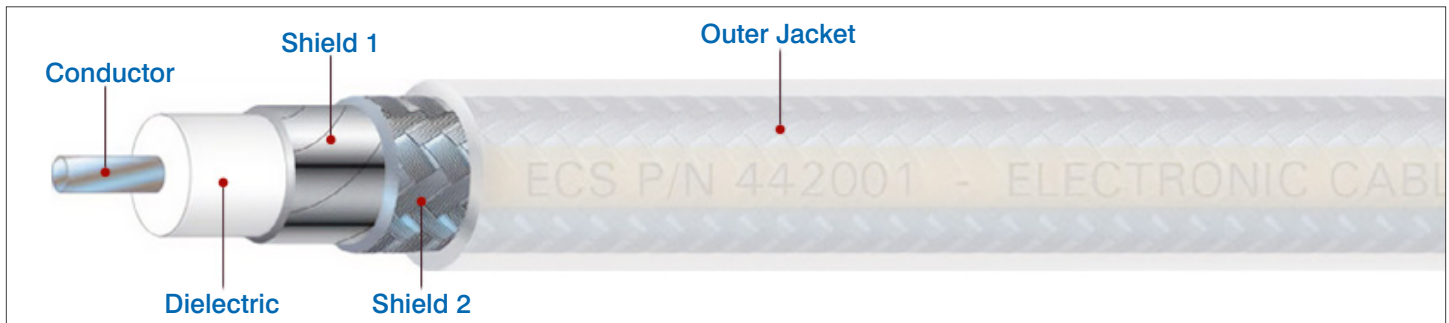


ECS Avionics RF Cable

P/N 442001 | 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) Amtdt 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	N/A
ARINC 600 Size 8	N/A
Mini BNC 90°	CMBR402
Mini BNC Bulkhead Jack	BMBS402
Mini BNC Straight	CMBS402
D-Sub #8 Pin	N/A
D-Sub #8 Socket	N/A
F 90°	N/A
F Straight	N/A
SMA 90°	N/A
TNC Straight	UPL240-009
Trompeter Triax Plug	N/A

PHYSICAL CHARACTERISTICS (NOMINAL)

Outer Diameter	0.200"
Minimum Bend Radius	1.0"
Weight	2.5 lb/100 ft
Temperature Range	-55 to 85 °C
Skydrol™ Resistant	Yes

ELECTRICAL CHARACTERISTICS (NOMINAL)

Impedance	75 Ω	
Capacitance	18.5 pF/ft	
DC Resistance	37.3 Ω/1,000 ft	
Time Delay	1.40 ns/ft	
Velocity of Propagation	73%	
Shield Effectiveness	> 80 dB	
Attenuation	@ 10 MHz	1.6 dB/100 ft
	@ 100 MHz	2.7 dB/100 ft
	@ 400 MHz	5.5 dB/100 ft
	@ 1450 MHz	10.4 dB/100 ft

CONSTRUCTION DETAILS

Conductor	20 AWG silver-plated copper
Dielectric	High-temperature fluoropolymer
Shield 1	Aluminum Polyester foil
Shield 2	38 AWG tin-plated copper braid
Outer Jacket	White high-temperature fluoropolymer

Skydrol is a protected trademark of the Eastman Chemical Company.