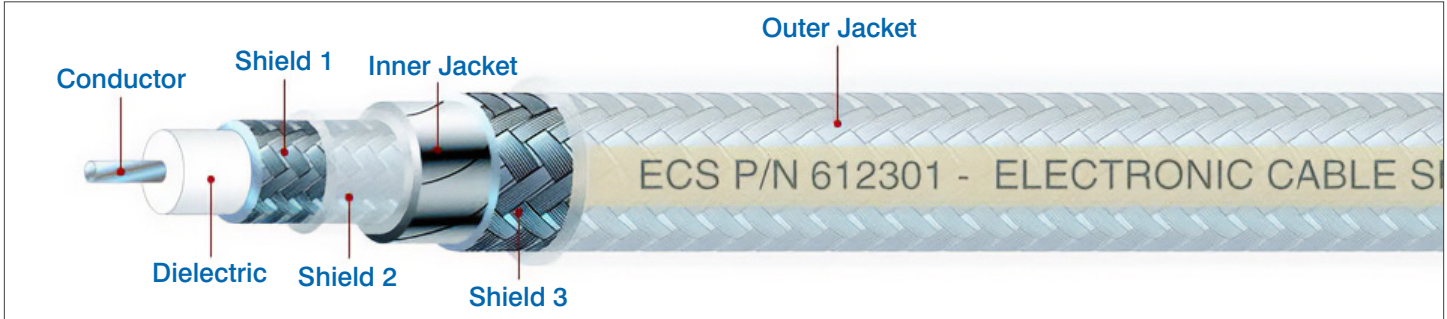


## ECS Avionics RF Cable

P/N 612301 | 75 Ω Triaxial



### 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
Trompeter Triax Plug	305-1353-1

### PHYSICAL CHARACTERISTICS (NOMINAL)

Outer Diameter	0.20"
Minimum Bend Radius	1.0"
Weight	3.27 lb/100 ft
Temperature Range	-55 to 150 °C
Skydrol™ Resistant	Yes

### ELECTRICAL CHARACTERISTICS (NOMINAL)

Impedance	75 Ω	
Capacitance	20.0 pF/ft	
DC Resistance	23.7 Ω/1,000 ft	
Time Delay	1.28 ns/ft	
Velocity of Propagation	82%	
Shield Effectiveness	> 90 dB	
Attenuation	@ 10 MHz	1.2 dB/100 ft
	@ 100 MHz	3.0 dB/100 ft
	@ 400 MHz	8.3 dB/100 ft
	@ 1450 MHz	20.0 dB/100 ft

### CONSTRUCTION DETAILS

Conductor	23 AWG stranded tin-plated copper
Dielectric	High-temperature fluoropolymer
Shield 1	Aluminum tape
Shield 2	Tin-plated braid
Inner Jacket	White high-temperature fluoropolymer
Shield 3	Tin-plated braid
Outer Jacket	White high-temperature fluoropolymer

Skydrol is a protected trademark of the Eastman Chemical Company.