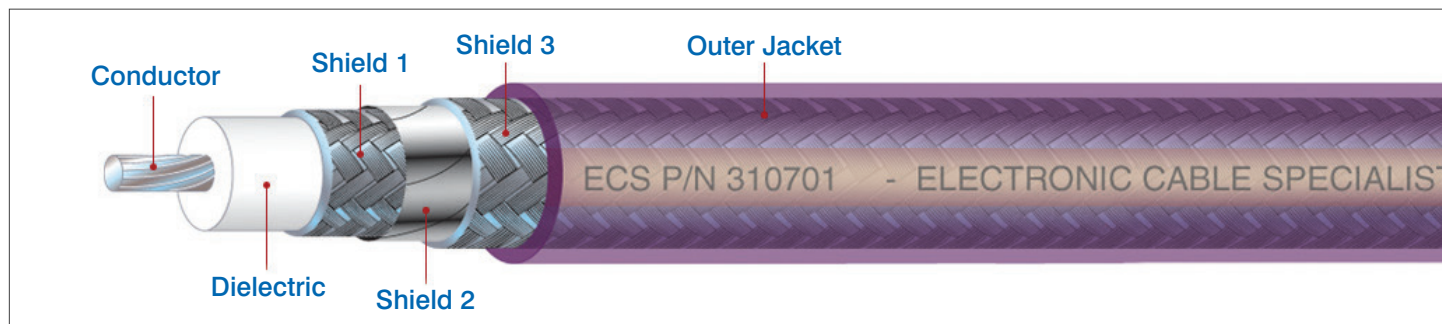


## ECS Avionics RF Cable

P/N 310701 | 50 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 1	Use LMT101 Adapter
ARINC 600 Size 1	L0120
ARINC 600 Size 1 Modified	N/A
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A
BNC 90°	N/A
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Bulkhead	N/A
BNC Straight	N/A
C 90°	CCR002
C Straight	N/A
HN 90°	N/A
N 90°	CNR002
N Bulkhead	BNS002
N Straight	CNS002
SMA 90°	N/A
SMA Straight	N/A
TNC 90°	CTR002
TNC 90° Self-Locking	CLTR002
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Bulkhead	BTS002
TNC Panel Mount	N/A
TNC Straight	CTS002
TNC Straight Self-Locking	CLTS002

### PHYSICAL CHARACTERISTICS (NOMINAL)

Outer Diameter	0.485"
Minimum Bend Radius	3.0"
Weight	18 lb/100 ft
Temperature Range	-55 to 150 °C
Skydrol™ Resistant	Yes

### ELECTRICAL CHARACTERISTICS (NOMINAL)

Impedance	50 Ω	
Capacitance	25.5 pF/ft	
DC Resistance	0.85 Ω/1,000 ft	
Time Delay	1.25 ns/ft	
Velocity of Propagation	81%	
Shield Effectiveness	> 90 dB	
Attenuation	@ 150 MHz	1.0 dB/100 ft
	@ 1,000 MHz	3.1 dB/100 ft
	@ 1,600 MHz	3.9 dB/100 ft
	@ 2,400 MHz	4.6 dB/100 ft
	@ 5,000 MHz	7.2 dB/100 ft

### CONSTRUCTION DETAILS

Conductor	7 AWG solid copper-clad aluminum
Dielectric	High-temperature fluoropolymer
Shield 1	Flat silver-plated copper braid
Shield 2	Aluminum tape
Shield 3	Silver-plated copper braid
Outer Jacket	Purple high-temperature fluoropolymer

Skydrol is a protected trademark of the Eastman Chemical Company.