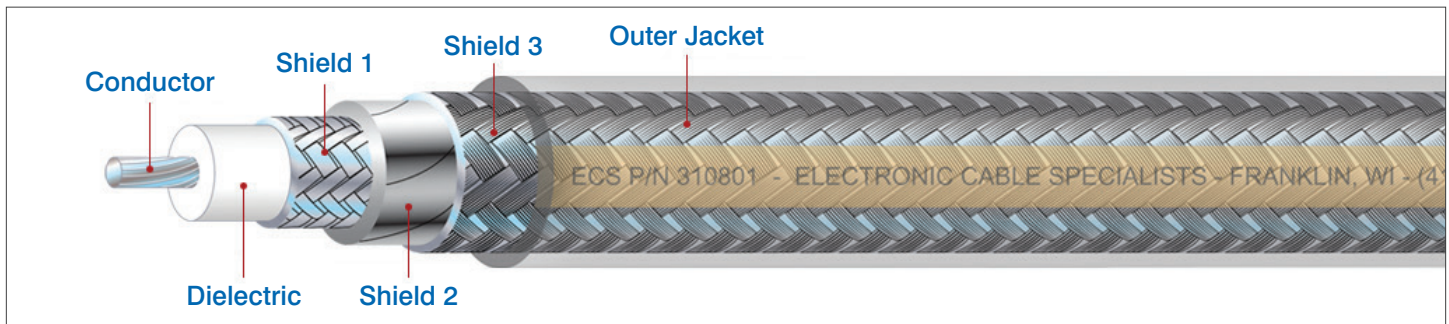


ECS Avionics RF Cable

P/N 310801 | 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	L0122
ARINC 600 Size 1 Modified	M0122
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A
BNC 90°	CBR022
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Bulkhead	N/A
BNC Straight	CBS022
C 90°	CCR022
C Straight	CCS022
HN 90°	CHR022
N 90°	CNR002
N Bulkhead	BNS022
N Straight	CNS022
SMA 90°	N/A
SMA Straight	N/A
TNC 90°	CTR022
TNC 90° Self-Locking	CLRT022
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Bulkhead	BTS022
TNC Panel Mount	N/A
TNC Straight	CTS022
TNC Straight Self-Locking	CLTS022

PHYSICAL CHARACTERISTICS (NOMINAL)

Outer Diameter	0.452"
Minimum Bend Radius	2.26"
Weight	1.9 lb/100 ft
Temperature Range	-55 to 200 °C
Skydrol™ Resistant	Yes

ELECTRICAL CHARACTERISTICS (NOMINAL)

Impedance	50 Ω	
Capacitance	25.5 pF/ft	
DC Resistance	0.67 Ω/1,000 ft	
Time Delay	1.25 ns/ft	
Velocity of Propagation	81%	
Shield Effectiveness	> 90 dB	
Attenuation	@ 150 MHz	1.3 dB/100 ft
	@ 1,000 MHz	3.6 dB/100 ft
	@ 1,600 MHz	4.6 dB/100 ft
	@ 2,400 MHz	6.5 dB/100 ft
	@ 5,000 MHz	8.5 dB/100 ft

CONSTRUCTION DETAILS

Conductor	8 AWG solid copper-clad aluminum
Dielectric	High-temperature fluoropolymer
Shield 1	Flat silver-plated copper braid
Shield 2	Aluminum foil
Shield 3	36 AWG silver-plated copper braid
Outer Jacket	Clear high-temperature fluoropolymer

Skydrol is a protected trademark of the Eastman Chemical Company.