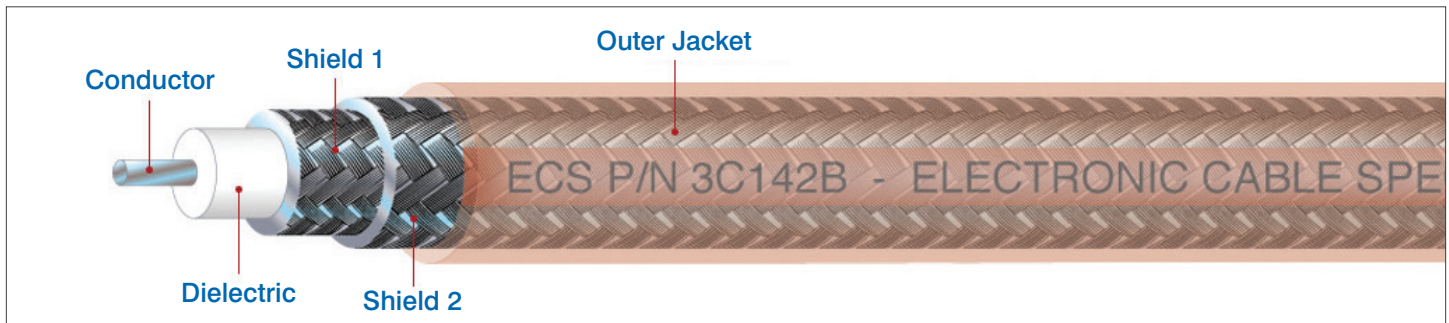


ECS Avionics RF Cable

P/N 3C142B | 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	L7122
ARINC 600 Size 1 Modified	M7122
ARINC 600 Size 5	620021
ARINC 600 Size 8	N/A
BNC 90°	CBR722
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Bulkhead	BBS722
BNC Straight	CBS722
C 90°	CCR722
C Straight	CCS722
HN 90°	CHR722
N 90°	CNR722
N Bulkhead	BN3722
N Straight	CNS722
SMA 90°	CSR722
SMA Straight	CSS722
TNC 90°	CTR722
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Bulkhead	BTS722
TNC Panel Mount	N/A
TNC Straight	CTS722

PHYSICAL CHARACTERISTICS (NOMINAL)

Outer Diameter	0.195"
Minimum Bend Radius	1.0"
Weight	4.0 lb/100 ft
Temperature Range	-55 to 200 °C
Skydrol™ Resistant	Yes

ELECTRICAL CHARACTERISTICS (NOMINAL)

Impedance	50 Ω	
Capacitance	29.4 pF/ft	
DC Resistance	19.5 Ω/1,000 ft	
Time Delay	1.46 ns/ft	
Velocity of Propagation	70%	
Shield Effectiveness	> 80 dB	
Attenuation	@ 150 MHz	5.0 dB/100 ft
	@ 1,000 MHz	14.5 dB/100 ft
	@ 1,600 MHz	18.1 dB/100 ft
	@ 2,400 MHz	22.2 dB/100 ft
	@ 5,000 MHz	34.9 dB/100 ft

CONSTRUCTION DETAILS

Conductor	20 AWG silver-coated copper-clad steel
Dielectric	High-temperature fluoropolymer
Shield 1	Silver-plated flat braid
Shield 2	36 AWG silver-plated copper braid
Outer Jacket	Tan high-temperature fluoropolymer

Skydrol is a protected trademark of the Eastman Chemical Company.