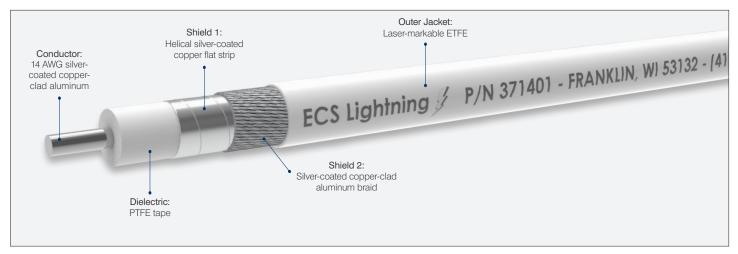
ECS Avionics RF Cables Lightning Series

P/N 371401 | 50 Ω Coaxial



INTRODUCTION

An exceptionally lightweight, extremely low-loss, and high-velocity RF cable solution for avionics systems, our Lightning series avionics RF cables are designed to meet the performance and weight demands of all modern aircraft. The innovative use of silver-plated copper-clad aluminum conductors and shields not only makes this cable remarkably light but also easy to use. And with laser-markable jacketing for easy identification, very high shield effectiveness and signal integrity, and minimal attenuation, our Lightning series cables offer a unique combination of form, function, and performance that is unmatched in the market.

FEATURES	BENEFITS	
Light weight	Lower mass means more payload, more range, and lower operating cost	
Low attenuation	More signal at a given cable size means better reliability and the opportunity to take even more mass out of the aircraft	
Resistant to common aircraft fluids	Long reliable life	
RoHS compliant	No RoHS-limited materials in the construction	
Flame Resistant	Meets OEM and regulatory requirements for fire safety on passenger aircraft	
Excellent shield effectiveness	Shielding prevents interference with adjacent cables, systems and the environment	
Laser markable jacket	Easy wire processing for cable to include customized marking	

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SPECIFICATIONS & PERFORMANCE					
Construction Details					
Conductor		14 AWG silver-coated copper-clad aluminum			
Dielectric		PTFE tape			
Shield 1		Helical silver-coated copper flat strip			
Shield 2		Silver-coated copper-clad aluminum braid			
Jacket		Laser-markable ETFE			
Electrical Characteristics					
Impedance		50 Ω			
Capacitance (Nom.)		23.6 pF/ft			
DC Resistance (Nom.)		3.50 Ω/1,000 ft			
Time Delay (Nom.)		1.18 ns/ft			
Velocity of Propagation (Nom.)		86%			
Shield Effectiveness (Min.)		-110 dB			
	@ 400 MHz	4.3			
Attenuation (dB/100 ft)	@ 1000 MHz	6.8			
	@ 1600 MHz	8.7			
	@ 2400 MHz	10.4			
	@ 5000 MHz	15.9			
Physical Characteristics					
Outer Diameter (Nom.)		0.220 in.			
Static Bend Radius (Min.)		1.2 in.			
Weight (Nom.)		3.0 lbs/100 ft			
Temp. Range		-55 to +200 °C			
Environmental Details					
Burn Resistance		Meets or exceeds FAR 14 CFR Part 25.869(a) (4) Amdt 25-113, Appendix F Part I(a)(3) burn requirements			
Outgassing		Manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables			

CONNECTOR OPTIONS			
Туре	P/N		
Bulkhead N	BNS422		
Bulkhead TNC	BTS422		
Bulkhead BNC	BBS422		
SMA 90°	CSR422		
SMA Straight	CSS422		
HN 90°	CHR422		
N 90°	CNR422		
N Straight	CNS422		
C 90°	CCR422		
C Straight	CCS422		
BNC 90°	CBR422		
BNC 90° Extended	CBRE422		
BNC 90° Long	CBRL422		
BNC Straight	CBS422		
TNC 90°	CTR422		
TNC 90° Self-Locking	CLTR422		
TNC 90° Extended	CTRE422		
TNC 90° Long	CTRL422		
TNC Straight	CTS422		
TNC Straight Self-Locking	CLTS422		
ARINC 404 Size 1	LM422		
ARINC 600 Size 1	L4122		
ARINC 600 Size 1 Modified	M4122		
ARINC 600 Size 5	P422		



See our complete line of Avionics RF Cables at:

CarlislelT.com/products/wire-cable/high-performance-coaxial-cable/avionics-rf-cable/

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