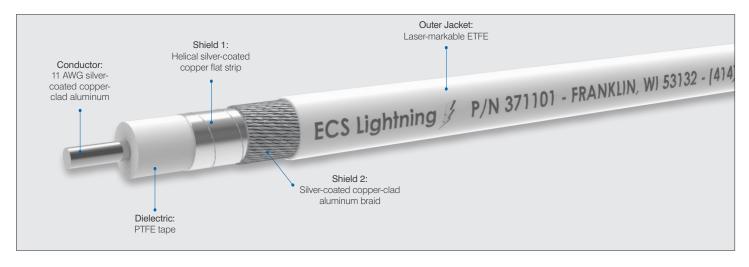
Wire & Cable

ECS Avionics RF Cables Lightning Series

P/N 371101 | 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		11 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.)		2.0 Ω /1,000 ft		
Time Delay (Nom.)		1.18 ns/ft		
Velocity of Propagation (Nom.)		86%		
Shield Effectiveness (Min.)		-110 dB		
	@ 400 MHz	3.1		
Attenuation (dB/100 ft)	@ 1000 MHz	5.0		
	@ 1600 MHz	6.4		
	@ 2400 MHz	7.2		
	@ 5000 MHz	11.7		
Physical Characteristics				
Outer Diameter (Nom.)		0.279 in		
Static Bend Radius (Min.)		1.6 in		
Weight (Nom.)		4.28 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

-	DAL
Туре	P/N
Bulkhead N	BN3122
Bulkhead TNC	BTS122
Bulkhead BNC	N/A
SMA 90°	CSR122
SMA Straight	CSS122
HN 90°	CHR122
N 90°	CNR122
N Straight	CNS122
C 90°	CCR122
C Straight	CCS122
BNC 90°	CBR122
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Straight	CBS122
TNC 90°	CTR122
TNC 90° Self-Locking	CLTR122
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Straight	CTS122
TNC Straight Self-Locking	CLTS122
ARINC 404 Size 1	LM122
ARINC 600 Size 1	L1122
ARINC 600 Size 1 Modified	M1122
ARINC 600 Size 5	P122

