



### CONTACT

Market information  
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50 Ohms, Low Loss Light Weight Coaxial Cable.

**Designed for high frequency signal transmission in aircraft electrical systems.**

### DESIGN CONSTRUCTION

Product designed according to : EN 4604-001, -002 and -010

#### conE

Solid silver plated copper  
 Diameter : 1.40 ± 0.02 mm

#### insulation

Fluoropolymer  
 Diameter : 4.20 +0.10/-0.15 mm

#### shield

*1<sup>st</sup> layer*  
 Silver plated copper tape

#### *2<sup>nd</sup> layer*

Silver plated copper braid  
 Strand diameter : 0.13 mm  
 Diameter : 4.80 ± 0.20 mm

#### jacket

Fluoropolymer  
  
 Diameter : 5.40 ± 0.15 mm  
 Nominal weight : 74 g/m  
 Maximum weight : 80 g/m

### IDENTIFICATION

Colour of jacket : Light Green  
 Colour of marking : Black

Marking text : " EN KX FRF\*\* "

FR = Country of origin (FR = France)  
 F = Manufacturer (F = Lynx<sup>eo</sup>)  
 \*\* = Year of manufacturing (i.e. 18 = 2018)



Static bending rad.  
 30 mm



Min. dynamic operating bending rad.  
 50.0 mm



Flame retardant  
 FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)



Oil resistance  
 Very good resistance to aircraft fluids

**CHARACTERISTICS****Usage characteristics**

Operating temperature flexing, range	-55 ... 200 °C
Minimum static operating bending radius	30 mm
Minimum dynamic operating bending radius	50.0 mm
Flame retardant	FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)
Oil resistance	Very good resistance to aircraft fluids

**ELECTRICAL CHARACTERISTICS**

Operating frequency	: up to 6 GHz
Dielectric strength	: 2500 Vac
Operating voltage	: 1000 Vrms max.
Minimum insulation resistance	: 5000 MΩ.km
Characteristic impedance at 200MHz	: 50 ± 2 Ω
Maximum linear capacitance	: 88 pF/m
Minimum relative velocity of propagation	: 75%
Maximum conductor ohmic resistance	: 11.53 Ω/km

**HIGH FREQUENCY PERFORMANCES**

Frequency (MHz)	Max. Attenuation at 20°C (dB/100m)	Max. Return Loss
50	5.5	1.10
100	7.8	1.10
150	9.7	1.10
200	11	1.15
400	15.5	1.15
1000	24.5	1.15
1600	31.5	1.20
2500	38.9	1.20
3000	43.8	1.20
6000	63.5	1.35

**TRANSFERT IMPEDANCE**

<b>Maximum Values (mΩ/m)</b>	: 9.0 from 0 to 0.01 MHz
	: 9.0 at 0.1 MHz
	: 5.0 at 1 MHz
	: 1.8 at 5 MHz
	: 1.0 at 10 MHz
	: 0.5 at 30 MHz
	: 0.5 at 100 MHz

**SELLING AND DELIVERY INFORMATION**