



### CONTACT

Market information  
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50 Ohms, Low Loss Weight Coaxial Cable.

Designed for high frequency signal transmission in aircraft electrical systems.

### DESIGN CONSTRUCTION

Product designed according to : EN 4604 - 001, - 002 and - 009

#### CORE

Solid silver plated copper clad aluminum  
 Diameter :  $2.30 \pm 0.02$  mm

#### INSULATION

Expanded fluoropolymer  
 Diameter :  $6.20 \pm 0.10$  mm

#### SHIELD

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

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

Braid based on mix of silver plated copper clad aluminum wire and silver plated copper wire  
 Strand diameter : 0.13 mm  
 Diameter :  $6.87 \pm 0.20$  mm

#### JACKET

Fluoropolymer  
 Diameter :  $7.65 \pm 0.15$  mm  
 Nominal weight : 85 g/m  
 Maximum weight : 95 g/m

### IDENTIFICATION

Colour of jacket : Turquoise  
 Color of marking : Black

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

FR = Country of origin (FR = France)  
 F = Manufacturer (F = Lynxéo)  
 (\*\* ) = Year of manufacturing (i.e. 18 = 2018)



Operating temp.  
 -55 ... 180 °C



Static bending rad.  
 80 mm



Min. dynamic operating  
 bending rad.  
 120.0 mm



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



Oil resistance  
 Very good resistance to aircraft  
 fluids

## CHARACTERISTICS

操作度范	- 55 ... 180 ° C
Minimum static operating bending radius	80 mm
Minimum dynamic operating bending radius	120.0 mm
	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	: 3000 Vac
Operating voltage	: 1000 Vrms max.
Minimum insulation resistance	: 5000 M .km
Characteristic impedance at 200 MHz	: 50 ± 3
Maximum linear capacitance	: 88 pF/m
Minimum relative velocity of propagation	: 81%
Maximum conductor ohmic resistance	: 7.15 /km
Maximum transfer impedance up to 400 MHz	: 20 m /m

## HIGH FREQUENCY PERFORMANCES

Frequency (MHz)	Max. Attenuation at 20 ° C (dB/100m)	Max. Return loss
50	3.5	1.1
100	5.5	1.1
400	10	1.15
1000	15	1.15
5000	35	1.2
6000	41	1.35

## SELLING AND DELIVERY INFORMATION