



### CONTACT

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50 Ohms, Coaxial Cable

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

### STANDARDS

Test prEN 3475

International prEN 4604-001, -002 and -007

### DESIGN CONSTRUCTION

#### CORE

Solid silver plated copper  
Diameter =  $2.30 \pm 0.03$  mm

#### INSULATION

Expanded PTFE  
Diameter =  $6.20 \pm 0.10$  mm

#### SHIELD

*1st layer*

Silver plated copper tape

*2nd layer*

Silver plated copper braid  
Strand diameter = 0.20 mm  
Diameter =  $7.50 \pm 0.20$  mm

#### JACKET

Violet FEP

Diameter =  $8.00 \pm 0.20$  mm  
Max. weight = 145 g/m

### IDENTIFICATION

Colour of jacket : Black

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

FR = Country of Origin (FR = France)

F = Manufacturer (F = Lynx<sup>eo</sup>)

\*\* = Year of manufacturing (ie. 14 = 2014)



Operating temp.  
-55 ... 200 °C



Static bending rad.  
80 mm



Min. dynamic operating  
bending rad.  
120.0 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



RoHS compliant  
Yes

**CHARACTERISTICS****Dimensional characteristics**

Diameter Aluminium Wire	10 mm
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**Usage characteristics**

Operating temperature, range	-55 ... 200 °C
Minimum static operating bending radius	80 mm
Minimum dynamic operating bending radius	120.0 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
RoHS compliant	Yes

**ELECTRICAL CHARATERISTICS**

Operating frequency	: up to 6 GHz
Operating voltage	: 1000Vac
Dielectric strength	: 3000Vac
Insulation resistance	: $\geq 5000 \text{ M}\Omega\cdot\text{km}$
Characteristic impedance	: $50 \pm 3 \Omega$
Maximum linear capacitance	: 82 pF/m
Nominal velocity of propagation	: 243 000 km/s (81% relative)

**ATTENUATION AND POWER HANDLING**

Frequency (MHz)	Max. Rated Power (W)	Max. Attenuation at 20°C (dB/100)
50	8000	3.5
100	5000	5.5
400	3000	10
1000	2000	15
5000	800	35
6000	700	41

**SELLING AND DELIVERY INFORMATION**