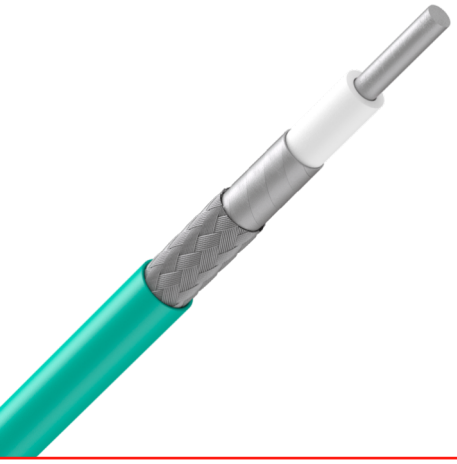
EN 4604-009 KW



CONTACT

Market information
industryprojects.business@lynxeogroup.com

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 ± 0.02 mm

INSULATION
Expanded fluoropolymer
Diameter : 6.20 ± 0.10 mm

SHIELD
1st layer
Silver plated copper tape

2nd 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 ± 0.20 mm

JACKET
Fluoropolymer

Diameter : 7.65 ± 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 = Lynxeo)
(**) = 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

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

Oil resistance
Very good resistance to aircraft fluids

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxeo is indicative only and shall not be binding on Lynxeo or be treated as constituting a representation on the part of Lynxeo.

CHARACTERISTICS

Usage characteristics	
Operating temperature, range	-55 ... 180 °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

ELECTRICAL CHARACTERISTICS

Operating frequency	: up to 6 GHz
Dielectric strength	: 3000 Vac
Operating voltage	: 1000 Vrms max.
Minimum insulation resistance	: 5000 MΩ.km
Characteristic impedance at 200 MHz	: 50 ± 3 Ω
Maximum linear capacitance	: 88 pF/m
Minimum relative velocity of propagation	: 81%
Maximum conductor ohmic resistance	: 7.15 Ω/km
Maximum transfer impedance up to 400 MHz	: 20 mΩ/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

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