EN 4604-003 WZ

50 Ohms Light Weight Coaxial Cable

Designed for signal transmission application in aeronautic environment.

STANDARDS

Product EN 4604-003

Test prEN 3475

DESIGN CONSTRUCTION

Product designed according to : prEN 4604-001, -002 and -003.
Tested according to prEN 3475 and prEN 3838.

CORE
Solid silver plated copper
Diameter = 0.905 +/- 0.025 mm

INSULATION
Aerated Fluoropolymer
Diameter = 2.35 ± 0.15 mm

SHIELD
Metallized foil
Silver plated copper braid
Diameter = 3.05 ± 0.15 mm

JACKET
Fluoropolymer
UV laser marquable

Diameter = 3.55 ± 0.15 mm
Max. weight = 30 g/m

IDENTIFICATION

Colour of jacket : White
Colour of marking: Black

Marking text : " EN WZ FRF** "

FR = Country of Origin (FR = France)
F = Manufacturer (F = Lynxeo)
(**) = Year of manufacturing (ie. 14 = 2014)

CONTACT

Market information
industryprojects.business@lynxeogroup.com

Operating temp.
-65 ... 200 °C

Static bending rad.
37 mm

Min. dynamic operating bending rad.
100.0 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

Usage characteristics	
Operating temperature, range	-65 ... 200 °C
Minimum static operating bending radius	37 mm
Minimum dynamic operating bending radius	100.0 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 CHARACTERISTICS

Operating frequency	: up to 3 GHz
Dielectric strength	: 4000 Vac
Insulation resistance	: ≥ 1000 MΩ.km
Characteristic impedance	: 50 ± 2 Ω
Maximum linear capacitance	: 88 pF/m
Minimum relative velocity of propagation	: 75%
Maximum transfer impedance up to 3 GHz	: 30 mΩ/m

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power (W)	Max. Attenuation at 20°C (dB/100m)
50	110	11
200	660	19
400	450	28
1000	250	47
3000	150	90