EN 4604-008 WD

50 Ohms, Coaxial Cable

Designed for high frequency radio communications applications in aeronautic environment.

STANDARDS

Test prEN 3475

International prEN 4604-001, -002 and -008

DESIGN CONSTRUCTION

Product designed according to : prEN 4604-001, -002 and -008
Tested according to prEN 3475

CORE
37 x 0.34 mm Strand
Silver plated copper
Diamaeter = 2.33 ± 0.05 mm

INSULATION
Fluorocarbon
Diameter = 6.0 ± 0.10 mm

SHIELD
Two braids
Silver plated copper 0.13 mm
Diameter = 7.10 ± 0.10 mm

JACKET
Fluoropolymer

Diameter = 7.70 ± 0.20 mm
Nom. weight = 130 g/m
Max. weight = 137 g/m

IDENTIFICATION

Jacket Color : White
Color of the marking : Black

Marking text : " EN WD FRF ** "

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

CONTACT

Market information
industryprojects.business@lynxeogroup.com

Operating temp.
-55 ... 200 °C

Static bending rad.
40 mm

Min. dynamic operating bending rad.
80.0 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	-55 ... 200 °C
Minimum static operating bending radius	40 mm
Minimum dynamic operating bending radius	80.0 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 PERFORMANCES

Operating frequency	: up to 8 GHz
Dielectric strength	: 2500Vac
Corona extinction voltage	: 1500Vac
Insulation resistance	: ≥ 5000 MΩ.km
Characteristic impedance at 200 MHz	: 50 ± 2 Ω
Maximum linear capacitance	: 85 pF/m
Nominal velocity of propagation	: 240 000 km/s

HIGH FREQUENCY PERFORMANCES

Frequency (MHz)	Nom. Rated Power (W)	Max. Attenuation at 20°C (dB/100m)	Max. Return Loss
50	5700	5.0	1.1
100	4000	7.2	1.1
150	3100	9.1	1.1
200	2700	10.7	1.15
400	1800	16.1	1.15
1000	1000	28.6	1.15
1600	730	39.6	1.2
2500	530	55.0	1.2
3000	480	61.0	1.2
8000	250	110.0	1.35

TRANSFERT IMPEDANCE

Maximum Values (mΩ/m) : 4.2 from 0 to 0.01 MHz
: 4.0 at 0.1 MHz
: 1.3 at 1 MHz
: 0.6 at 5 MHz
: 1.0 at 10 MHz
: 2.3 at 30 MHz
: 5.5 at 100 MHz