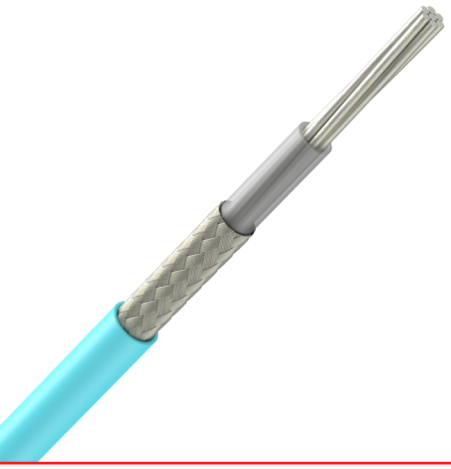
# EN 4604-005 WL



75 Ohms, Coaxial Cable

**Designed for high frequency signal transmission in aircraft radio communication systems.**

## STANDARDS

**Test** prEN 3475-100

**International** prEN 4604-001, -002 and -005

## DESIGN CONSTRUCTION

**CORE**
7 x 0.10 mm Strands
High strength silver plated copper alloy
Diameter = 0.30 ± 0.025 mm

**INSULATION**
Fluorocarbon
Max. diameter = 1.30 mm

**SHIELD**
Silver plated copper double braid
Strand diameter = 0.08 mm
Diameter = 1.85 ± 0.10 mm

**JACKET**
Fluorocarbon

Max. diameter = 2.35 mm
Max. weight = 12.5 g/m

## IDENTIFICATION

Jacket colour: Blue
Marking colour: Black

Marking text : WL FRF**

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

Operating temp.
**-55 ... 200 °C**

Static bending rad.
**15 mm**

Min. dynamic operating bending rad.
**25.0 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**


## CONTACT

Market information
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## CHARACTERISTICS

| Usage characteristics | |
|---|---|
| Operating temperature, range | -55 ... 200 °C |
| Minimum static operating bending radius | 15 mm |
| Minimum dynamic operating bending radius | 25.0 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 3GHz |
| dielectric strength | : 2000Vac |
| Maximum operating voltage | : 500V rms |
| Maximum ohmic resistance | : 384 Ω/km |
| Insulation resistance | : ≥ 5000 MΩ.km |
| Characteristic impedance | : 75 ± 5 Ω |
| Maximum linear capacitance | : 60 pF/m |
| Velocity of propagation | : ≥ 222 000 km/s (74% relative) |
| Maximum transfer impedance | : 30 mΩ/m up to 1 MHz |
| | : 5 mΩ/m up to 20 MHz |
| | : 30 mΩ/m up to 100 MHz |

## ATTENUATION AND POWER HANDLING

| Frequency (MHz) | Max. Rated Power (W) | Max. Attenuation at 20°C (dB/100m) |
|---|---|---|
| 10 | 640 | 10 |
| 50 | 290 | 23 |
| 100 | 200 | 30 |
| 200 | 140 | 43 |
| 300 | 110 | 53 |
| 400 | 100 | 63 |
| 1000 | 65 | 102 |
| 3000 | 37 | 176 |