



CONTACT

Market information
industryprojects.business@lynxeogroup.com

75 Ohms, Triaxial Cable

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

STANDARDS

Test prEN 3475

National ECS 0745

DESIGN CONSTRUCTION

CORE

7 x 0.10 mm Strands of 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
 Strands diameter = 0.08 mm
 Max. diameter = 1.95 mm

INNER JACKET

Fluorocarbon
 Max. diameter = 2.37 mm

SHIELD

Silver plated copper
 Strands diameter = 0.10 mm

OUTER JACKET

Fluorocarbon
 Diameter : 3.40 ± 0.10 mm
 Max. weight = 27 g/m

IDENTIFICATION

Inner Jacket colour : Blue
 Outer Jacket colour : Blue

Marking text : " KC FR F ** "



Operating temp.
 -65 ... 200 °C



Static bending rad.
 17 mm



Min. dynamic operating
 bending rad.
 35.0 mm



(**) Year of manufacturing
 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	17 mm
Minimum dynamic operating bending radius	35.0 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

Dry test voltage between core and shield	: 2000 Vac
Inner and outer jacket dry impulse test	: 5000 V
Maximum operating voltage	: 500V rms
Operating frequency	: up to 3 GHz
Maximum ohmic resistance of conductor	: 384 Ω/km
Insulation resistance	: ≥ 5000 MOhms.Km between conductor and shield : ≥ 1500 MOhms.Km between shields
Characteristic impedance	: 75 ± 5 Ω
Maximum linear capacitance	: 60 pF/m at 1 kHz
Transfer impedance	: ≤ 15 mOhms/m up to 100 MHz
Velocity of propagation	: ≥ 222 000 km/s (74% relative)

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

SELLING AND DELIVERY INFORMATION