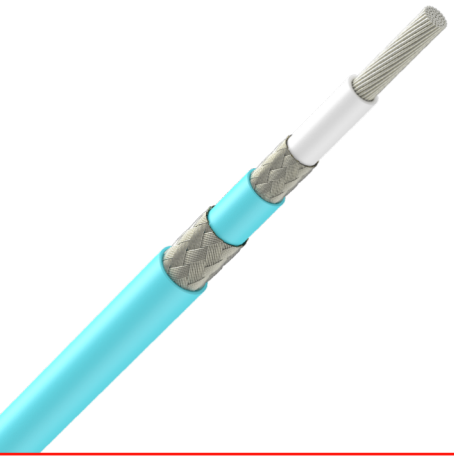
ECS 0745 KC



CONTACT

Market information
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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 ± 0.10mm
Max. weight = 27 g/m

IDENTIFICATION

Inner Jacket colour : Blue
Outer Jacket colour : Blue

Marking text : " KC FR F ** "

(**) Year of manufacturing

Operating temp.
-65 ... 200 °C

Static bending rad.
17 mm

Min. dynamic operating bending rad.
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

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