



### CONTACT

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### Miniature Triaxial Cable

### STANDARDS

National ECS 0757 KE

### DESIGN CONSTRUCTION

#### CORE

7 x 0.175 mm Strand  
 Silver plated copper alloy  
 Nom. diameter = 0.53 mm

#### INSULATION

PTFE  
 Diameter = 1.52 ± 0.08 mm

#### SHIELD

Silver plated copper 10/100  
 Coverage ≥ 65%  
 Nom. diameter = 1.98 mm

#### INNER JACKET

FEP  
 Diameter = 2.49 ± 0.10 mm

#### SHIELD

Silver Plated Copper 10/100  
 Coverage ≥ 65%  
 Nom. diameter = 2.94 mm

#### JACKET

FEP  
 Diameter = 3.50 ± 0.15 mm  
 Max. weight = 31 g/m

**Strippability** : mechanical device or automatic stripper

### IDENTIFICATION

Inner and Outer jacket color : Transparent green  
 With a marker tape placed beneath the outer jacket

Marking text : "KE FR F \*\*\*"



Operating temp.  
 -65 ... 200 °C



Static bending rad.  
 18 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)**

(\*\*) : Year of manufacturing



Oil resistance  
 Good



RoHS compliant  
 Yes

**CHARACTERISTICS****Usage characteristics**

Operating temperature, range	-65 ... 200 °C
Minimum static operating bending radius	18 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	Good
RoHS compliant	Yes

**ELECTRICAL CHARACTERISTICS**

Dry test voltage between core and shield	: 2000Vac
Inner and outer jacket dry impulse test	: 5000 V
Maximum operating voltage	: 900V rms
Operating frequency	: up to 1.5 GHz
Maximum ohmic resistance of conductor	: 124 Ω/km
Insulation resistance	: ≥ 5000 MΩ.km between dielectric and shield : ≥ 1500 MΩ.km between shields
Characteristic impedance	: 50 ± 2 Ω
Maximum linear capacitance	: 105 pF/m at 1 kHz
Nominal velocity of propagation	: 208 500 km/s (69.5%)

**ATTENUATION AND POWER HANDLING**

Frequency (MHz)	Max. Rated Power (W)	Max. Attenuation at 20°C (dB/100m)
10	1400	9.5
100	430	35
200	300	49
500	190	77
1000	130	108
1500	110	133