



## CASTHERMCOAX™

### Style RG178 U

-55°C to +200°C, 50 Ohms



#### Construction

**Type:** coaxial cable

**Core:** Silver Plated Copper Coated Steel (SPCCS)

**Dielectric:** PTFE

**Shielding:** silver-plated copper braid

**Sheath:** FEP

#### Production

**Standard:** nominal diameter 1.83 mm

**Options:** Please consult us for any special requirements

#### Application

**Aerospace and Defense:** radio frequency communications, data transmission, wireless communication in extreme conditions

#### General characteristics

**Operating environment:** protection from electromagnetic interference

**Chemical behavior:** excellent resistance to chemical environments

**Humidity:** excellent resistance to humidity

#### Thermal characteristics

**Operating temperature:** -55°C to +200 °C

#### Electrical characteristics

**Operating Voltage:** 750V

**Impedance:** 50 Ohms

#### Approvals – Standards

**Aeronautic and defense:** MIL-DTL-17

Conductor structure			Conductor Diameter		Dielectric Diameter		Outer Shield Diameter		Final O.D.	
# Strands	Diam. Of Strands (mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
	(in)	(mm)								
7	0.004	0.1	0.012	0.3	0.034	0.86	0.051	1.3	0.072	1.83

DATA TRANSMISSION CHARACTERISTICS	
Impedance	50Ω
Capacitance max	96.45 pF / m
Use frequency max	3 GHz
Velocity of propagation	69.5%
Operating voltage	750V

SIGNAL ATTENUATION		
Frequency (MHz)	Nominal attenuation	
	(dB / 100 m)	(dB / 100 ft)
100	45.3	13.8
400	91.2	27.8
1000	145.7	44.4
3000	257.2	78.4



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