



CASTHERMCOAX™

Style RG302 U

-55°C to +200°C, 75 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 5.13 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: 1700V

Impedance: 75 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)								
1	0.025	0.64	0.025	0.64	0.146	3.71	0.165	4.2	0.202	5.13

DATA TRANSMISSION CHARACTERISTICS	
Impedance	75Ω
Capacitance max	63.65 pF / m
Use frequency max	3 GHz
Velocity of propagation	69.5%
Operating voltage	1700V

SIGNAL ATTENUATION		
Frequency (MHz)	Nominal attenuation	
	(dB / 100 m)	(dB / 100 ft)
100	10.5	3.2
400	21.7	6.6
1000	35.4	10.8
3000	66.6	20.3



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