

CASTHERMCOAX™

Style RG304 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 7.1 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: 3000V

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)								
1	0.059	1.5	0.059	1.5	0.185	4.7	0.224	5.7	0.280	7.11

DATA TRANSMISSION CHARACTERISTICS	
Impedance	50Ω
Capacitance max	96.45 pF / m
Use frequency max	12 GHz
Velocity of propagation	69.5%
Operating voltage	3000 V

SIGNAL ATTENUATION		
Frequency	Nominal attenuation	
(MHz)	(dB / 100 m)	(dB / 100 ft)
100	8.2	2.5
400	17.4	5.3
1000	28.9	8.8
3000	55.5	16.9
5000	75.5	23.0



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