CASTHERMCOAX™

Style RG142 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 4.95mm
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: 1400V
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	0.037	0.93	0.110	2.79	0.118	3	0.156	3.95	0.195	4.95

DATA TRANSMISSION CHARACTERISTICS	
Impedance	50Ω
Capacitance max	96.45 pF / m
Use frequency max	12.4 GHz
Velocity of propagation	69.5%
Operating voltage	1400V

SIGNAL ATTENUATION		
Frequency	Nominal attenuation	
(MHz)	(dB / 100 m)	(dB / 100 ft)
100	12.5	3.8
400	25.6	7.8
1000	42	12.8