

COAXTHERM®

RG 142 BU
50 Ohms



- 1 • Silver-plated copper clad-steel rigid core (CCSAg)
- 2 • Fluoropolymer dielectric
- 3 • Silver plated copper double braid
- 4 • Fluorinated polymer FEP

Standards and approvals

Construction:

- MIL-DTL-17: MIL-C-17/60

Marking

"COAXTHERM RG 142 BU – 50 Ohms –
< batch number >"

Colour code

- Light Brown jacket

For any other request: please contact us

Applications

Data transmission in high temperature environment for aerospace and defence industries

Characteristics

• Thermal

Continuous operating temperature: **-55°C to +200°C**

• Chemical

Resistance to chemical environments: ★★★★★

Resistance to humidity: ★★★★★

• Fire-smoke

Flame retardant

CONSTRUCTION

INNER CONDUCTOR (1)		DIELECTRIC (2)	OUTER CONDUCTOR (3)	OUTER SHEATH (4)	
Stranding (n x mm)	Nominal diameter (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approx. linear weight (kg / km)
1 x 0.94	0.94	2.95	4.34	4.95	64.0

DATA TRANSMISSION CHARACTERISTICS

Impedance	50 Ω
Capacitance max	105 pF / m
Use frequency max	12.4 GHz
Velocity of propagation	69.5%
Operating voltage	1,400 V

SIGNAL ATTENUATION

Frequency (MHz)	Nominal attenuation (dB / 100 m)
50	9.8
100	14.4
400	30.5
1,000	50.2
3,000	96.1

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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

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