

COAXTHERM®

RG 178 BU
50 Ohms



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

Standards and approvals

Construction:

- MIL-DTL-17: MIL-C-17/93

Marking

"COAXTHERM RG 178 BU – 50 Ohms –
< batch number >"

Colour code

- Light Brown jacket
- For any other request: please contact us

Option

Max operating temperature until +230°C
Reference: COAXTHERM® RG 178 BU
/ PFA

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)	Approx. linear weight (kg / km)
Stranding (n x mm)	Nominal diameter (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Nominal diameter (mm)	
7 x 0.10	0.30	0.90	1.37	1.80	9.3

DATA TRANSMISSION CHARACTERISTICS

Impedance	50 Ω
Capacitance max	105 pF / m
Use frequency max	3 GHz
Velocity of propagation	69.5%
Operating voltage	750 V

SIGNAL ATTENUATION

Frequency (MHz)	Nominal attenuation (dB / 100 m)
50	38.1
100	52.5
400	108.3
1,000	170.6
3,000	308.4

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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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