

COAXTHERM®

RG 178 BU / PFA
50 Ohms

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

Standards and approvals

Construction:

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

Marking

"COAXTHERM RG 178 BU / PFA –
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 +230°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

CGP SAS
62 route du Coin
42400 Saint-Chamond
FRANCE
Phone: **+33 (0)4 77 31 02 54**
www.omerin.com



www.omerin.com

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company CGP SAS shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.

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.

© Registered trademark of the CGP SAS. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of CGP SAS.