

# COAXTHERM®

**RG 316 U / 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-17/138

## Marking

"COAXTHERM RG 316 U / 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 0.17	0.51	1.52	2.06	2.49	18.0

## DATA TRANSMISSION CHARACTERISTICS

Impedance	50 Ω
Capacitance max	105 pF / m
Use frequency max	3 GHz
Velocity of propagation	69.5%
Operating voltage	900 V

## SIGNAL ATTENUATION

Frequency (MHz)	Nominal attenuation (dB / 100 m)
50	24.6
100	36.1
400	68.9
1,000	124.7
3,000	190.3

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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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