

# DATA CABLES



## RG 179 FEP FEP insulated coaxial cable with FEP jacket in reference to RG 179 (75 Ω)



RG 179 FEP is a high temperature coax cable with an excellent resistance to chemicals and solvents. For use in high broadband transmission this cable is suitable for attenuation poor and distortionless transmission of signals. In referring to RG 179 (75 Ω impedance).

### Construction:

<b>Conductor:</b>	silver-plated strands, fine wires
<b>Insulation:</b>	FEP
<b>Color code:</b>	nature
<b>Screen:</b>	silver-plated braiding
<b>Jacket material:</b>	FEP
<b>Jacket color:</b>	black

### Outstanding features:

- excellent resistance against chemicals and solvents
- excellent temperature resistance and flexibility at low temperatures
- excellent electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics

### Technical data:

<b>Frequency range:</b>	max. 1 GHz
<b>Peak operating voltage:</b>	900 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>Intrinsic impedance:</b>	75 Ω ± 5 Ω
<b>Spreading velocity:</b>	approx. 69%
<b>Capacitance:</b>	max. 75 pF/m
<b>Conductor resistance:</b>	max. 363 Ω/km
<b>Attenuation at 20 °C:</b>	50 MHz approx. 15 dB/100 m 100 MHz approx. 20 dB/100 m 400 MHz approx. 55 dB/100 m 900 MHz approx. 70 dB/100 m 1000 MHz approx. 85 dB/100 m 1800 MHz approx. 90 dB/100 m 3000 MHz approx. 110 dB/100 m
<b>Regularity:</b>	50 MHz up to 400 MHz > 26 dB 400 MHz up to 1000 MHz > 24 dB 1000 MHz up to 3000 MHz > 20 dB
<b>Temperature range</b> <i>static:</i>	-90/+180 °C
<i>flexing:</i>	-55/+180 °C
<b>Chem. resistance:</b>	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	mm <sup>2</sup>	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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▶ 36200062	0.055	29	0.100 ± 0.006	2.54 ± 0.15	10
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Other dimensions and colors are possible on request.