

# DATA CABLES

## RG 316 FEP FEP insulated coaxial cable with TPE jacket in reference to RG 316 (50 Ω)



RG 316 FEP is a FEP insulated coax cable with TPE outer jacket in reference to RG 316 (50 Ω impedance). For use in telecommunication e. g. cell phone and industrial communication. The TPE outer jacket is especially used where plugs are tight encapsulated.

### Construction:

<b>Conductor:</b>	tinned copper strands, fine wires
<b>Insulation:</b>	FEP
<b>Color code:</b>	nature
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	TPE
<b>Jacket color:</b>	black

### Outstanding features:

- 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. 3 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>	50 Ω ± 5 Ω
<b>Spreading velocity:</b>	approx. 69%
<b>Capacitance:</b>	max. 105 pF/m
<b>Conductor resistance:</b>	max. 363 Ω/km
<b>Attenuation at 20 °C:</b>	50 MHz approx. 19 dB/100 m 100 MHz approx. 27 dB/100 m 400 MHz approx. 57 dB/100 m 900 MHz approx. 90 dB/100 m 1000 MHz approx. 95 dB/100 m 1800 MHz approx. 140 dB/100 m 3000 MHz approx. 165 dB/100 m
<b>Regularity:</b>	50 MHz up to 400 MHz > 26 dB 400 MHz up to 1800 MHz > 23 dB 1800 MHz up to 3000 MHz > 15 dB
<b>Temperature range</b> <i>static:</i>	-50/+90 °C
<i>flexing:</i>	-40/+90 °C
<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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▶ 36000172      0.17      25      0.100 ± 0.002      2.55 ± 0.05      8

Other dimensions and colors are possible on request.