

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:

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

Technical data:

Frequency range:	max. 3 GHz
Peak operating voltage:	900 V
Testing voltage:	2000 V
Min. bending radius:	7.5 x O.D.
Intrinsic impedance:	50 Ω ± 5 Ω
Spreading velocity:	approx. 69%
Capacitance:	max. 105 pF/m
Conductor resistance:	max. 363 Ω/km
Attenuation at 20 °C:	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
Regularity:	50 MHz up to 400 MHz > 26 dB 400 MHz up to 1800 MHz > 23 dB 1800 MHz up to 3000 MHz > 15 dB
Temperature range <i>static:</i>	-50/+90 °C
<i>flexing:</i>	-40/+90 °C
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

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

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item no.	mm ²	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 36000172	0.17	25	0.100 ± 0.002	2.55 ± 0.05	8

Other dimensions and colors are possible on request.