

DATA SHEET

RG-400 FRNC Coaxial Cable



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Description

RG-400 FRNC is a universal and flame-retardant 50 Ω coaxial cable with 4.95 mm outer diameter for a variety of radio frequency applications. RG-400 FRNC is double shielded and has an FRNC outer jacket. RG-400 FRNC is halogen-free, UV-resistant and is characterized by low smoke development.

Application

RG-400 FRNC is suitable for radio and antenna systems as well as for many applications in communications technology.

Technical data

Inner conductor	Stranded silver-plated copper wire 19 x 0,2 mm (20 AWG)
Insulation	Foamed Polyethylene (PE) with skin, \varnothing 2,95 mm
Shield 1	Silver-plated copper wires, coverage 95%
Shield 2	Silver-plated copper wires, coverage 90%
Jacket	Thermoplastic copolymer (FRNC) black, UV resistant, wall thickness about 0,45 mm
Outer diameter	4,95 \pm 0,2 mm
Temperature range	-40 to +80°C
Min. bending radius	5 \times \varnothing single, 10 \times \varnothing multiple
Weight	48 kg/km
Standards	Flame retardant acc. to IEC 60332-1-2 Manufactures acc. to UL Style 1375 RoHS compliant (Directive 2002/95/EC)

Electrical characteristics

Impedance	50 \pm 2 Ω	
Max. frequency	2,5 GHz	
Capacitance	\approx 95 nF/km	
Conductor resistance	\leq 32 Ω /km	
Insulation resistance	\geq 10 G Ω *km	
Velocity factor	0,70	
Attenuation typ.	50 MHz: 10,0 dB/100 m 200 MHz: 22,3 dB/100 m 500 MHz: 37,0 dB/100 m 2000 MHz: 85,0 dB/100 m	100 MHz: 15,3 dB/100 m 300 MHz: 28,0 dB/100 m 1000 MHz: 55,0 dB/100 m 2500 MHz: 95,0 dB/100 m
Test voltage (wire/screen)	2000 V	