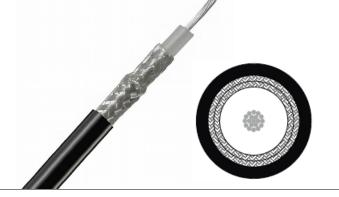
DATA SHEET RG-400 FRNC Coaxial Cable



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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, Ø 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 ± 0,2 mm	
Temperature range	-40 to +80°C	
Min. bending radius	$5 \times Ø$ single, $10 \times Ø$ multiple	
Weight	48 kg/km	
Standards	Flame retardatnt acc. to IEC 60332-1-2 Manufactures acc. to UL Style 1375 RoHS compliant (Directive 2002/95/EC)	

Electrical characteristics

Impedance	50 ± 2 Ω		
Max. frequency	2,5 GHz		
Capacitance	≈ 95 nF/km		
Conductor resistance	≤ 32 Ω/km		
Insulation resistance	≥ 10 GΩ*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		