

COAXIAL ANTENNA
TYPE:
NK CODE:

 RFX 1 5/8"-50
 RFX 1 5/8"-50 BHF
 RFX 1 5/8"-50 MBHF

 NKRFX15800
 NKRFX15802
 NKRFX15807

CONSTRUCTION


Inner conductor	Corrugated copper tube	Ø 17.6 mm	(0.69 in)
Dielectric	Cellular polyethylene	Ø 42.0 mm	(1.65 in)
Outer conductor	Corrugated single side slotted copper tube	Ø 46.3 mm	(1.82 in)
Jacket	See Jacketing Options table below	Ø 50.0 mm	(1.97 in)
Marking	Draka, cable type, manufacture week, year, batch number and meter mark		

ELECTRICAL CHARACTERISTICS at +20°C (+68°F)

Characteristic impedance	50 ± 2 Ω	
Typical return loss (VSWR) on effective frequency range	18 dB	(1.29)
Velocity factor	0.89	
Capacitance	74 pF/m	(22.6 pF/ft)
Maximum frequency	2800 MHz	
DC-resistance		
- Inner conductor	1.16 Ω/km	(0.35 Ω/1000 ft)
- Outer conductor	0.43 Ω/km	(0.13 Ω/1000 ft)

Attenuation (typical, measured acc. to IEC 61196-4 free space method)		
at 75 MHz	0.7 dB/100m	(0.21 dB/100ft)
at 150 "	0.9 "	(0.27 ")
at 450 "	1.7 "	(0.52 ")
at 900 "	2.7 "	(0.82 ")
at 1.8 GHz	4.6 "	(1.40 ")
at 2.1 "	5.2 "	(1.58 ")
at 2.4 "	6.2 "	(1.89 ")

Coupling loss (typical, measured acc. to IEC 61196-4 free space method)		
	<u>50% value</u>	<u>95% value</u>
at 75 MHz	53 dB	60 dB
at 150 "	63 "	69 "
at 450 "	68 "	73 "
at 900 "	68 "	73 "
at 1.8 GHz	69 "	75 "
at 2.1 "	67 "	72 "
at 2.4 "	68 "	74 "

MECHANICAL CHARACTERISTICS

Weight (polyethylene jacket)	1.13 kg/m	(0.76 lb/ft)
Weight (GHF/BHF fire retardant jacket)	1.29 kg/m	(0.87 lb/ft)
Maximum pulling force	3750 N	(826 lb)
Minimum single bending radius	400 mm	(15.7 in)
Operating temperature range	-55...+80°C	(-67...+176 °F)

JACKETING OPTIONS

TYPE	JACKET	IEC 60754 -1/-2 halogen free, non corrosive	IEC 61034 low smoke emission	IEC 60332-3-24 fire retardant	UV retardancy	Min. installation temperature
RFX 1 5/8"-50	Black, halogen free polyethylene	yes	no	no	yes	-40°C (-40°F)
RFX 1 5/8"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	no	yes	yes	-5°C (+23°F)
RFX 1 5/8"-50 MBHF	Black, halogen free fire retardant thermoplastic with mica tape fire barrier	yes	yes	yes	yes	-5°C (+23°F)