

COAXIAL ANTENNA
TYPE:
 RF2X 1 5/8"-50
 RF2X 1 5/8"-50 BHF
 RF2X 1 5/8"-50 MBHF

NK CODE:
 NKRF2X15800
 NKRF2X15802
 NKRF2X15807

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 double 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 "	1.0 "	(0.30 "
at 450 "	1.9 "	(0.58 "
at 900 "	3.0 "	(0.91 "
at 1.8 GHz	5.5 "	(1.68 "
at 2.1 "	6.4 "	(1.95 "
at 2.4 "	7.5 "	(2.29 "

Coupling loss (typical, measured acc. to IEC 61196-4 free space method)

	50% value	95% value
at 75 MHz	50 dB	56 dB
at 150 "	58 "	63 "
at 450 "	63 "	67 "
at 900 "	64 "	72 "
at 1.8 GHz	66 "	73 "
at 2.1 "	65 "	72 "
at 2.4 "	66 "	74 "

MECHANICAL CHARACTERISTICS

Weight (polyethylene jacket)	1.12 kg/m	(0.75 lb/ft)
Weight (GHF/BHF fire retardant jacket)	1.28 kg/m	(0.86 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
RF2X 1 5/8"-50	Black, halogen free polyethylene	yes	no	no	yes	-40°C (-40°F)
RF2X 1 5/8"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	no	yes	yes	-5°C (+23°F)
RF2X 1 5/8"-50 MBHF	Black, halogen free fire retardant thermoplastic with mica tape fire barrier	yes	yes	yes	yes	-5°C (+23°F)