

COAXIAL ANTENNA

TYPE:

NK CODE:

RFXT 1 1/4"-50 MGHF
RFXT 1 1/4"-50 MBHF

NKRFX11406
NKRFX11407

CONSTRUCTION



Inner conductor	Copper tube	Ø 12.8 mm	(0.50 in)
Dielectric	Cellular polyethylene	Ø 32.5 mm	(1.28 in)
Outer conductor	Copper tape with periodic slots	Ø 32.8 mm	(1.29 in)
Fire barrier:	Mica tape	Ø 33.0 mm	(1.30 in)
Jacket	See Jacketing Options table below	Ø 38.8 mm	(1.53 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		0.88	
Capacitance		76 pF/m	(23 pF/ft)
Maximum frequency		3500 MHz	
DC-resistance			
- Inner conductor		0.63 Ω/km	(0.19 Ω/1000 ft)
- Outer conductor		1.14 Ω/km	(0.35 Ω/1000 ft)
Attenuation (measured acc. to IEC 61196-4 free space method)			
at 150 MHz	1.1 dB/100m		(0.34 dB/100ft)
at 450 "	2.1 "		(0.64 ")
at 900 "	3.0 "		(0.91 ")
at 1.8 GHz	5.2 "		(1.59 ")
Coupling loss (measured acc. to IEC 61196-4 free space method)			
	<u>50% value</u>	<u>95% value</u>	
at 150 MHz	76 dB	82 dB	
at 450 "	67 "	74 "	
at 900 "	69 "	75 "	
at 1.8 GHz	64 "	70 "	

MECHANICAL CHARACTERISTICS

Weight		0.910 kg/m	(0.61 lb/ft)
Maximum pulling force		3000 N	(664 lb)
Minimum single bending radius		450 mm	(18 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
RFXT 1 1/4"-50 MGHF	Grey, halogen free fire retardant thermoplastic with mica tape	yes	yes	yes	no	-5°C (+23°F)
RFXT 1 1/4"-50 MBHF	Black, halogen free fire retardant thermoplastic with mica tape	yes	yes	yes	yes	-5°C (+23°F)