

COAXIAL ANTENNA

TYPE:

NK CODE:

RFXT 7/8"-50 MGHF
RFXT 7/8"-50 MBHF

NKRFXT07806
NKRFXT07807

CONSTRUCTION



Inner conductor	Copper tube	Ø 9.0 mm	(0.35 in)
Dielectric	Cellular polyethylene	Ø 23.2 mm	(0.91 in)
Outer conductor	Copper tape with periodic slots	Ø 23.5 mm	(0.93 in)
Fire barrier:	Mica tape	Ø 23.7 mm	(0.93 in)
Jacket	See Jacketing Options table below	Ø 28.7 mm	(1.13 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	5100 MHz	
DC-resistance		
- Inner conductor	1.16 Ω/km	(0.35 Ω/1000 ft)
- Outer conductor	1.11 Ω/km	(0.45 Ω/1000 ft)

Attenuation (measured acc. to IEC 61196-4 free space method)

at 150 MHz	1.9 dB/100m	(0.58 dB/100ft)
at 450 "	3.2 "	(0.98 ")
at 900 "	5.0 "	(1.52 ")
at 1.8 GHz	8.0 "	(2.44 ")

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

	<u>50% value</u>	<u>95% value</u>
at 150 MHz	70 dB	76 dB
at 450 "	65 "	68 "
at 900 "	65 "	71 "
at 1.8 GHz	67 "	72 "

MECHANICAL CHARACTERISTICS

Weight	0.75 kg/m	(0.51 lb/ft)
Maximum pulling force	2300 N	(507 lb)
Minimum single bending radius	400 mm	(17in)
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 7/8"-50 MGHF	Grey, halogen free fire retardant thermoplastic with mica tape	yes	yes	yes	no	-20°C (-4°F)
RFXT 7/8"-50 MBHF	Black, halogen free fire retardant thermoplastic with mica tape	yes	yes	yes	yes	-20°C (-4°F)