

COAXIAL ANTENNA

TYPE	RFX 1 1/4"-50 RFX 1 1/4"-50 GHF RFX 1 1/4"-50 BHF	NK code: NKRFX11400 NKRFX11401 NKRFX11402
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CONSTRUCTION



Inner conductor	Copper tube	Ø 13.0 mm
Dielectric	Cellular polyethylene	Ø 32.2 mm
Outer conductor	Corrugated and slotted copper tube	Ø 35.8 mm
Sheath	See table below	Ø 39.0 mm
Marking	NK Cables, cable type, manufacture week, year, batch number and meter mark	

ELECTRICAL CHARACTERISTICS at +20°C

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
Cut-off frequency	3700 MHz
DC-resistance	
- inner conductor	0.64 Ω/km
- outer conductor	0.57 Ω/km
Attenuation measured according to IEC 61196-4 free space method.	
at 75 MHz	1.0 dB/100m
at 150 "	1.3 "
at 450 "	2.2 "
at 900 "	3.2 "
at 1.8 GHz	4.9 "
at 2.2 "	5.6 "
at 2.4 "	6.2 "
Coupling loss measured according to IEC 61196-4 free space method.	
	<u>50% value</u> <u>95% value</u>
at 75 MHz	65 dB 77 dB
at 150 "	69 " 78 "
at 450 "	68 " 79 "
at 900 "	69 " 81 "
at 1.8 GHz	75 " 86 "
at 2.2 "	74 " 85 "
at 2.4 "	72 " 83 "

MECHANICAL CHARACTERISTICS

Weight	940 kg/km
Maximum pulling force	6050 N
Minimum single bending radius	350 mm
Operating temperature range	-55...+80°C

JACKETING OPTIONS

TYPE	JACKET	IEC 60754 -1/-2 halogen free, non corrosive	IEC 61034 low smoke emission	IEC 60332-1 fire retardant	UV retardancy	Min. installation temperature
RFX 1 1/4"-50	Black polyethylene, halogen free	yes	no	no	yes	-40°C
RFX 1 1/4"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	-5°C
RFX 1 1/4"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C