

COAXIAL ANTENNA

TYPE	RFX 1/2"-50 RFX 1/2"-50 GHF RFX 1/2"-50 BHF	NK code: NKRFX01200 NKRFX01201 NKRFX01202
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CONSTRUCTION



Inner conductor	Copper-clad aluminium wire	Ø 4.8 mm
Dielectric	Cellular polyethylene	Ø 12.1 mm
Outer conductor	Corrugated and slotted copper tube	Ø 13.9 mm
Sheath	See table below	Ø 16.0 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	10 000 MHz
DC-resistance	
- inner conductor	1.43 Ω/km
- outer conductor	2.21 Ω/km
Attenuation measured according to IEC 61196-4 free space method.	
at 75 MHz	2.1 dB/100m
at 150 "	3.1 "
at 450 "	5.4 "
at 900 "	7.9 "
at 1.8 GHz	11.7 "
at 2.2 "	13.1 "
at 2.4 "	14.2 "
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 " 81 "
at 450 "	72 " 82 "
at 900 "	72 " 84 "
at 1.8 GHz	76 " 88 "
at 2.2 "	79 " 90 "
at 2.4 "	76 " 88 "

MECHANICAL CHARACTERISTICS

Weight	250 kg/km
Maximum pulling force	2550 N
Minimum single bending radius	115 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 60332-3C fire retardant	UV retardancy	Min. installation temperature
RFX 1/2"-50	Black polyethylene, halogen free	yes	no	no	yes	-40°C
RFX 1/2"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	-5°C
RFX 1/2"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C