Draka
Draka Cableteq | Mobile Network Cable

SPECIFICATION 5197/06
Replace 5182/05
20.2.2006

COAXIAL ANTENNA

TYPE:	NK CODE:
RFX 1 5/8"-50	**NKRFX15800**
RFX 1 5/8"-50 GHF	**NKRFX15801**
RFX 1 5/8"-50 BHF	**NKRFX15802**

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 single 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	NK Cables, cable type, manufacture week, year, batch number and meter mark		

ELECTRICAL CHARACTERISTICS at +20°C (+68ºF)

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

at 75 MHz	0.6 dB/100m	(0.18 dB/100ft)
at 150 “	1.0 “	(0.31 “)
at 450 “	1.8 “	(0.55 “)
at 900 “	2.7 “	(0.82 “)
at 1.8 GHz	4.2 “	(1.28 “)
at 2.2 “	4.8 “	(1.47 “)
at 2.4 “	5.4 “	(1.65 “)

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

	50% value	95% value
at 75 MHz	67 dB	73 dB
at 150 “	68 “	75 “
at 450 “	70 “	78 “
at 900 “	76 “	81 “
at 1.8 GHz	77 “	83 “
at 2.2 “	78 “	82 “
at 2.4 “	76 “	82 “

MECHANICAL CHARACTERISTICS

Weight	1.16 kg/m	(0.78 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 ºF)

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 5/8”-50	Black, halogen free polyethylene	yes	no	no	yes	-40°C (-40ºF)
RFX 1 5/8”-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	-5°C (-4ºF)
RFX 1 5/8”-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C (-4ºF)

MNC-tech.support@draka.com
Phone + 358-10-566 1
Fax + 358-10-566 4294