COAXIAL ANTENNA RFX 1 5/8"

NK CODES		
	RFX 1 5/8"-50	**NKRFX15800**
	RFX 1 5/8"-50 BHF	**NKRFX15802**
	RFX 1 5/8"-50 MBHF	**NKRFX15807**

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 double side slotted copper tube	Ø 46.3 mm	(1.82 in)
Jacket	See Jacketing Options table below	Ø 49.5 mm	(1.95 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	0.89	
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	0.47 Ω/km	(0.14 Ω/1000 ft)

MECHANICAL CHARACTERISTICS

Weight (polyethylene jacket)	1.12 kg/m	(0.75 lb/ft)
Weight (GHF/BHF fire retardant jacket)	1.28 kg/m	(0.86 lb/ft)
Maximum pulling force	3900 N	(860 lb)
Minimum single bending radius	400 mm	(15.7 in)
Operating temperature range	-55...+85°C	(-67...+185 ºF)

ATTENUATION AND COUPLING LOSS ACC. TO IEC 61196-4

Frequency MHz	**Attenuation** dB/100m (dB/100ft) ± 5%	**Coupling loss** 50%, dB ± 10 dB	**Coupling loss** 95%, dB ± 10 dB	**Coupling loss *** 50%, dB ± 10 dB	**Coupling loss *** 95%, dB ± 10 dB
75	0.6 (0.18)	54	60	-	-
150	0.9 (0.27)	61	66	53	59
450	1.7 (0.52)	65	69	50	55
900	2.7 (0.82)	66	72	53	57
1800	4.6 (1.40)	69	74	59	64
2200	5.6 (1.71)	68	74	59	65
2400	6.1 (1.86)	68	73	59	64
2600	6.6 (2.01)	65	69	57	62

Attenuation and coupling loss values are typical acc. to IEC 61196-4 free space method.
** Coupling loss values are real measurement results from simulated sub-way tunnel.*

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
RFX 1 5/8"-50	Black, halogen free polyethylene	yes	no	no	yes	-20°C (-4°F)
RFX 1 5/8"-50 BHF	Black, HF fire retardant thermoplastic	yes	yes	yes	yes	-5°C (+23°F)
RFX 1 5/8"-50 MBHF	Black, HFFR with mica tape fire barrier	yes	yes	yes	yes	-5°C (+23°F)

[PRODUCT CODE TABLE]

RF2X 1 5/8" COAXIAL ANTENNA

NK CODES		
	RF2X 1 5/8"-50	NKRF2X15800
	RF2X 1 5/8"-50 BHF	NKRF2X15802
	RF2X 1 5/8"-50 MBHF	NKRF2X15807

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 double side slotted copper tube	Ø 46.3 mm	(1.82 in)
Jacket	See Jacketing Options table below	Ø 49.5 mm	(1.95 in)
Marking	Draka, 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	0.47 Ω/km	(0.14 Ω/1000 ft)

MECHANICAL CHARACTERISTICS

Weight (polyethylene jacket)	1.12 kg/m	(0.75 lb/ft)
Weight (GHF/BHF fire retardant jacket)	1.28 kg/m	(0.86 lb/ft)
Maximum pulling force	3900 N	(860 lb)
Minimum single bending radius	400 mm	(15.7 in)
Operating temperature range	-55...+85°C	(-67...+185 ºF)

ATTENUATION AND COUPLING LOSS ACC. TO IEC 61196-4

Frequency MHz	Attenuation dB/100m (dB/100ft) ± 5%	Coupling loss 50%, dB ± 10 dB	Coupling loss 95%, dB ± 10 dB	Coupling loss * 50%, dB ± 10 dB	Coupling loss * 95%, dB ± 10 dB
75	0.7 (0.21)	50	56	-	-
150	1.0 (0.31)	56	62	42	48
450	1.9 (0.60)	61	66	47	53
900	3.0 (0.91)	66	72	52	58
1800	5.1 (1.56)	66	72	57	62
2200	6.1 (1.86)	65	71	55	60
2400	6.6 (2.01)	66	72	58	63
2600	7.0 (2.13)	65	71	56	62

Attenuation and coupling loss values are typical and measured acc. to IEC 61196-4 free space method.
** Coupling loss values are real measurement results from simulated sub-way tunnel.*

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
RF2X 1 5/8”-50	Black, halogen free polyethylene	yes	no	no	yes	-20°C (-4ºF)
RF2X 1 5/8”-50 BHF	Black, HF fire retardant thermoplastic	yes	yes	yes	yes	-5°C (+23ºF)
RF2X 1 5/8”-50 MBHF	Black, HFFR with mica tape fire barrier	yes	yes	yes	yes	-5°C (+23ºF)

MNC-tech.support@draka.com
Telephone +358 10 56 61
Telefax +358 10 566 4294