

RFF 3/8" FLEXIBLE COAXIAL CABLE

NK CODES	RFF 3/8"-50	NKRFF03800
	RFF 3/8"-50 GHF	NKRFF03801
	RFF 3/8"-50 BHF	NKRFF03802
	RFF 3/8"-50 BHF (UL) CATVR	NKRFF03804

CONSTRUCTION



Inner conductor	Copper-clad aluminum wire	Ø 2.6 mm	(0.10 in)
Dielectric	Cellular polyethylene	Ø 6.5 mm	(0.26 in)
Outer conductor	Corrugated copper tube	Ø 9.0 mm	(0.35 in)
Jacket	See Jacketing Options table below	Ø 10.1 mm	(0.40 in)
Marking	Draka, cable type, manufacture week, year, batch number and meter mark		

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

Characteristic impedance	50 ± 1 Ω
Return loss 24 dB for 100 m cable with NKC connectors	
- 380 - 500	MHz
- 806 - 960	"
- 1710 - 1880	"
- 1900 - 2170	"
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See table
Velocity factor	0.81
Capacitance	82 pF/m (25.0 pF/ft)
Maximum frequency	15200 MHz
Max power rating	See table
Peak RF voltage rating	1.04 kV
Peak power rating	13.2 kW
DC-resistance	
- Inner conductor	5.1 Ω/km (1.55 Ω/1000 ft)
- Outer conductor	6.1 Ω/km (1.86 Ω/1000 ft)

MECHANICAL CHARACTERISTICS

Weight	0.12 kg/m	(0.08 lb/ft)
Maximum pulling force	600 N	(132 lb)
Minimum bending radius		
- Single bending	13 mm	(0.5 in)
- Repeated bending	25 mm	(1 in)
Operating temperature range	-55...+80°C	(-67...+176 °F)
Crush resistance	3.3 kg/mm	(185 lb/in)
Bending moment	2.3 Nm	(1.7 lb-ft)

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	UL Rated	Min. installation temperature
RFF 3/8"-50	Black, halogen free polyethylene	yes	no	no	yes	no	-40°C (-40°F)
RFF 3/8"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	no	-20°C (-4°F)
RFF 3/8"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	no	-20°C (-4°F)
RFF 3/8"-50 BHF (UL) CATVR	Black, halogen free fire retardant UL Riser rated jacket	yes	yes	yes	yes	yes	-20°C (-4°F)

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FREQUENCY MHz	ATTENUATION dB/100 m	ATTENUATION dB/100 ft	POWER RATING kW
10	1.30	0.397	6.0
30	2.27	0.692	3.4
50	2.94	0.897	2.6
88	3.93	1.20	2.0
100	4.20	1.28	1.9
108	4.37	1.33	1.8
174	5.59	1.71	1.4
200	6.01	1.83	1.3
300	7.44	2.27	1.1
400	8.65	2.64	0.90
450	9.21	2.81	0.84
500	9.74	2.97	0.80
512	9.86	3.01	0.79
600	10.7	3.27	0.73
700	11.7	3.55	0.67
800	12.5	3.82	0.62
850	12.9	3.95	0.60
890	13.3	4.05	0.59
900	13.4	4.07	0.58
950	13.8	4.19	0.57
960	13.8	4.22	0.56
1000	14.1	4.31	0.55
1200	15.6	4.76	0.50
1400	17.0	5.18	0.46
1600	18.3	5.58	0.43
1800	19.6	5.96	0.40
1900	20.2	6.14	0.39
2000	20.7	6.32	0.38
2200	21.9	6.67	0.36
2400	23.0	7.00	0.34
2600	24.0	7.33	0.33
2800	25.1	7.65	0.31
3000	26.1	7.95	0.30
3400	28.0	8.55	0.28
4000	30.8	9.39	0.26
6000	39.1	11.9	0.20
8000	46.5	14.2	0.17
15200	69.4	21.1	0.12

Attenuation values are typical at ambient temperature +20°C (+68°F).

Power rating ambient temperature +40°C (+104°F), inner conductor +100°C (+212°F).

CODES FOR NKC CONNECTORS

CONNECTOR TYPE	NK CODE
N male	NKC2038300
N female	NKC2038400
7-16 male	NKC2038100
7-16 female	NKC2038200
N male Right angle	NKC2038600
7-16 male Right angle	NKC2038500