

**RFE 7/8" FLEXIBLE COAXIAL CABLE**

<b>NK CODES</b>	<b>RFE 7/8"-50</b>	<b>NKRFE07800</b>
	<b>RFE 7/8"-50 GHF</b>	<b>NKRFE07801</b>
	<b>RFE 7/8"-50 BHF</b>	<b>NKRFE07802</b>
	<b>RFE 7/8"-50 BHF (UL) CATVR</b>	<b>NKRFE07804</b>

**CONSTRUCTION**



Inner conductor	Corrugated copper tube	Ø 9.4 mm	(0.37 in)
Dielectric	Cellular polyethylene	Ø 21.7 mm	(0.85 in)
Outer conductor	Corrugated copper tube	Ø 24.9 mm	(0.98 in)
Jacket	See Jacketing Options table below	Ø 27.5 mm	(1.08 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	0.88	
Capacitance	74.3 pF/m	(22.7 pF/m)
Maximum frequency	5200 MHz	
Max power rating	See table	
Peak RF voltage rating	2.8 kV	
Peak power rating	91.3 kW	
DC-resistance		
- Inner conductor	2.50 Ω/km	(0.76 Ω/1000 ft)
- Outer conductor	1.07 Ω/km	(0.32 Ω/1000 ft)

**MECHANICAL CHARACTERISTICS**

Weight	0.43 kg/m	(0.29 lb/ft)
Maximum pulling force	1500 N	(330 lb)
Minimum bending radius		
- Single bending	90 mm	(3.5 in)
- Repeated bending	120 mm	(4.7 in)
Operating temperature range	-55...+80°C	(-67...+176 °F)
Crush resistance	1.6 kg/mm	(90 lb/in)
Bending moment	15.7 Nm	(11.6 lb-ft)
Recommended clamp distance	1.0 m	(3.3 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
RFE 7/8"-50	Black, halogen free polyethylene	yes	no	no	yes	no	-40°C (-40°F)
RFE 7/8"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	no	-20°C (-4°F)
RFE 7/8"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	no	-20°C (-4°F)
RFE 7/8"-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/100m	ATTENUATION dB/100 ft	POWER RATING kW
10	0.380	0.116	24
30	0.663	0.202	14
50	0.861	0.263	11
88	1.15	0.351	8.0
100	1.23	0.375	7.5
108	1.28	0.391	7.2
174	1.64	0.501	5.6
200	1.77	0.539	5.2
300	2.19	0.668	4.2
400	2.55	0.778	3.6
450	2.72	0.829	3.4
500	2.88	0.878	3.2
512	2.92	0.889	3.1
600	3.18	0.969	2.9
700	3.46	1.05	2.6
800	3.72	1.13	2.5
850	3.84	1.17	2.4
890	3.94	1.20	2.3
900	3.97	1.21	2.3
950	4.09	1.25	2.2
960	4.11	1.25	2.2
1000	4.21	1.28	2.2
1200	4.65	1.42	2.0
1400	5.07	1.55	1.8
1600	5.47	1.67	1.7
1800	5.85	1.78	1.6
1900	6.03	1.84	1.5
2000	6.21	1.89	1.5
2200	6.56	2.00	1.4
2400	6.90	2.10	1.3
2600	7.23	2.20	1.3
2800	7.55	2.30	1.2
3000	7.86	2.40	1.2
3400	8.46	2.58	1.1
4000	9.32	2.84	0.98
5000	10.7	3.25	0.86

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	NKC1078300
N female	NKC1078400
7-16 male	NKC1078100
7-16 female	NKC1078200
7-16 male Right angle	NKC1078500
7-16 Bulkhead female	NKC1078290