

COAXIAL CABLE

TYPE	RFA 5/8"-50	NK code:	NKRFA05800
	RFA 5/8"-50 GHF		NKRFA05801
	RFA 5/8"-50 BHF		NKRFA05802
	RFA 5/8"-50 BHF (UL) CATVR		NKRFA05804

CONSTRUCTION



Inner conductor	Copper tube	Ø 7.0 mm	(0.28 in)
Dielectric	Cellular polyethylene	Ø 17.6 mm	(0.69 in)
Outer conductor	Corrugated copper tube	Ø 19.7 mm	(0.78 in)
Jacket	See Jacketing Options table below	Ø 21.9 mm	(0.86 in)
Marking	NK Cables, 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	76 pF/m (23 pF/ft)
Maximum frequency	6600 MHz
Max power rating	See table
Peak RF voltage rating	2.50 kV
Peak power rating	64.3 kW
DC-resistance	
- Inner conductor	1.08 Ω/km (0.33 Ω/1000 ft)
- Outer conductor	1.23 Ω/km (0.37 Ω/1000 ft)

MECHANICAL CHARACTERISTICS

Weight	0.40 kg/m (0.27 lb/ft)
Maximum pulling force	3750 N (826 lb)
Minimum bending radius	
- Single bending	90 mm (4 in)
- Repeated bending	150 mm (6 in)
Operating temperature range	-55...+80°C (-67...+176 °F)
Crush resistance	1.6 kg/mm (90 lb/in)
Bending moment	11 Nm (8.1 lb-ft)
Recommended clamp spacing	1.0 m (3.3 ft)

JACKETING OPTIONS

TYPE	JACKET	IEC 60754 -1/-2 halogen free, non corrosive	IEC 61034 low smoke emission	IEC 60332-3C fire retardant	UV retardancy	UL Rated	Min. installation temperature
RFA 5/8"-50	Black, halogen free polyethylene (LDPE with HDPE skin)	yes	no	no	yes	no	-40°C (-40°F)
RFA 5/8"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	no	-20°C (-4°F)
RFA 5/8"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	no	-20°C (-4°F)
RFA 5/8"-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	0.458	0.140	19
30	0.800	0.244	11
50	1.04	0.316	8.3
88	1.39	0.423	6.2
100	1.48	0.452	5.8
108	1.54	0.470	5.6
174	1.98	0.603	4.3
200	2.13	0.649	4.0
300	2.63	0.803	3.3
400	3.07	0.935	2.8
450	3.27	0.996	2.6
500	3.46	1.05	2.5
512	3.50	1.07	2.4
600	3.82	1.16	2.2
700	4.15	1.26	2.1
800	4.46	1.36	1.9
850	4.61	1.41	1.9
890	4.73	1.44	1.8
900	4.76	1.45	1.8
950	4.90	1.49	1.7
960	4.93	1.50	1.7
1000	5.04	1.54	1.7
1200	5.58	1.70	1.5
1400	6.08	1.85	1.4
1600	6.55	2.00	1.3
1800	7.00	2.13	1.2
1900	7.22	2.20	1.2
2000	7.43	2.27	1.1
2200	7.85	2.39	1.1
2400	8.25	2.51	1.0
2600	8.64	2.63	0.99
2800	9.01	2.75	0.95
3000	9.38	2.86	0.91
3400	10.1	3.08	0.85
6000	14.2	4.32	0.60
6100	14.3	4.36	0.60

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	NKC1058300
N female	NKC1058400
7-16 male	NKC1058100
7-16 female	NKC1058200