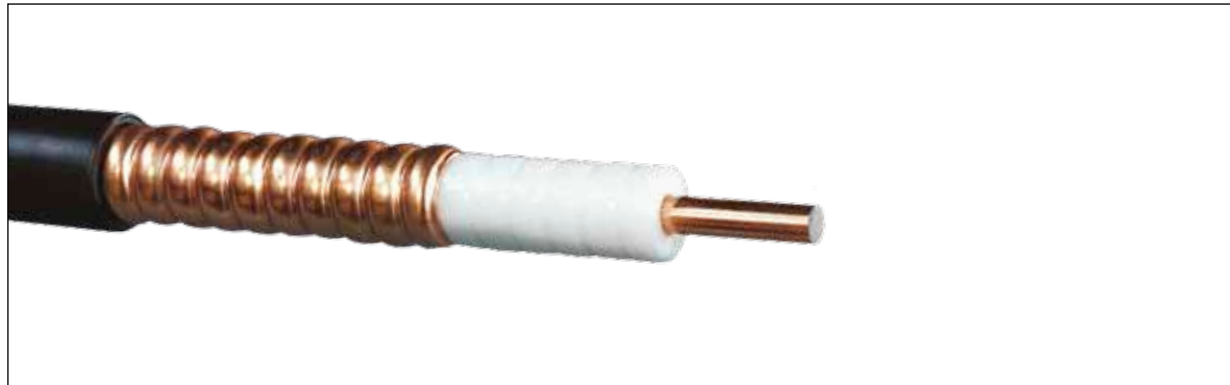


Feeder cable RFA 1/2"-50



Specifications

CODES

Type	Code
RFA 1/2"-50	NKRFA01200
RFA 1/2"-50 GHF	NKRFA01201
RFA 1/2"-50 BHF	NKRFA01202
RFA 1/2"-50 BHF (UL) CATVR	NKRFA01204

CONSTRUCTION

Inner conductor	Copper-clad aluminium wire	Ø 4.8 mm	(0.19 in)
Dielectric	Cellular polyethylene	Ø 12.1 mm	(0.48 in)
Outer conductor	Corrugated copper tube	Ø 13.9 mm	(0.55 in)
Jacket	See Jacketing Options table below	Ø 16.0 mm	(0.63 in)
Marking	Draka, cable type, manufacture week, year, batch number and meter mark		

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

Characteristic impedance $50 \pm 1 \Omega$
 Return loss 24 dB for 100 m cable with NKC connectors
 • 380-500 MHz
 • 806-960 MHz
 • 1710-1880 MHz
 • 1900-2170 MHz
 • 3400-3600 MHz
 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	9800 MHz
Max power rating	See table
Peak RF voltage rating	1.80 kV
Peak power rating	31.8 kW

DC-resistance	
• Inner conductor	1.44 Ω /km (0.44 Ω /1000 ft)
• Outer conductor	2.24 Ω /km (0.68 Ω /1000 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
RFA 1/2"-50	Black, halogen free polyethylene	yes	no	no	yes	no	-40°C (-40°F)
RFA 1/2"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	no	-20°C (-4°F)
RFA 1/2"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	no	-20°C (-4°F)
RFA 1/2"-50 BHF (UL) CATVR	Black, halogen free fire retardant UL Riser rated jacket	yes	yes	yes	yes	yes	-20°C (-4°F)

ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft	Power rating kW
10	0.665	0.203	12
30	1.16	0.354	6.9
50	1.51	0.459	5.3
88	2.01	0.613	4.0
100	2.15	0.655	3.7
108	2.24	0.682	3.6
174	2.86	0.873	2.8
200	3.08	0.938	2.6
300	3.81	1.16	2.1
400	4.43	1.35	1.8
450	4.72	1.44	1.7
500	4.99	1.52	1.6
512	5.06	1.54	1.6
600	5.50	1.68	1.4
700	5.98	1.82	1.3
800	6.43	1.96	1.2
850	6.64	2.03	1.2
890	6.81	2.08	1.2
900	6.85	2.09	1.2
950	7.06	2.15	1.1
960	7.10	2.16	1.1
1000	7.26	2.21	1.1
1200	8.02	2.45	0.98
1400	8.74	2.66	0.90
1600	9.41	2.87	0.83
1800	10.0	3.06	0.78
1900	10.4	3.16	0.76
2000	10.7	3.25	0.74
2200	11.3	3.43	0.70
2400	11.8	3.60	0.66
2600	12.4	3.77	0.63
2800	12.9	3.94	0.61
3000	13.4	4.09	0.58
3400	14.4	4.40	0.54
6000	20.2	6.15	0.39
8800	25.5	7.77	0.31

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).

MECHANICAL CHARACTERISTICS

Weight	0.23 kg/m (0.15 lb/ft)
Maximum pulling force	2550 N (562 lb)
Minimum bending radius	
• Single bending	70 mm (2.8 in)
• Repeated bending	120 mm (4.7 in)
Operating temperature range	-55...+80°C (-67...+176 °F)
Crush resistance	2.0 kg/mm (110 lb/in)
Bending moment	3.8 Nm (2.8 lb-ft)
Recommended clamp spacing	1.0 m (3.3 ft)

STANDARD DRUM

Cable type	Drum	Standard length	Outer diam. (D)	Outer width (W)	Drum weight (empty)	Total weight	Drum freight volume
		m (ft)	cm (in)	cm (in)	kg (lb)	kg (lb)	m ³ (cu.ft)
RFA 1/2"	P095D	500 (1640)	99 (39)	51 (20)	28 (62)	156 (344)	0.50 (17.65)

CODES FOR NKC CONNECTORS

Connector type	Code
N male	NKC1012300
N female	NKC1012400
7-16 male	NKC1012100
7-16 female	NKC1012200
N male Right angle	NKC1012600
7-16 male Right angle	NKC1012500