



Mobile Networks



Jumper cable



Feeder cable + connector

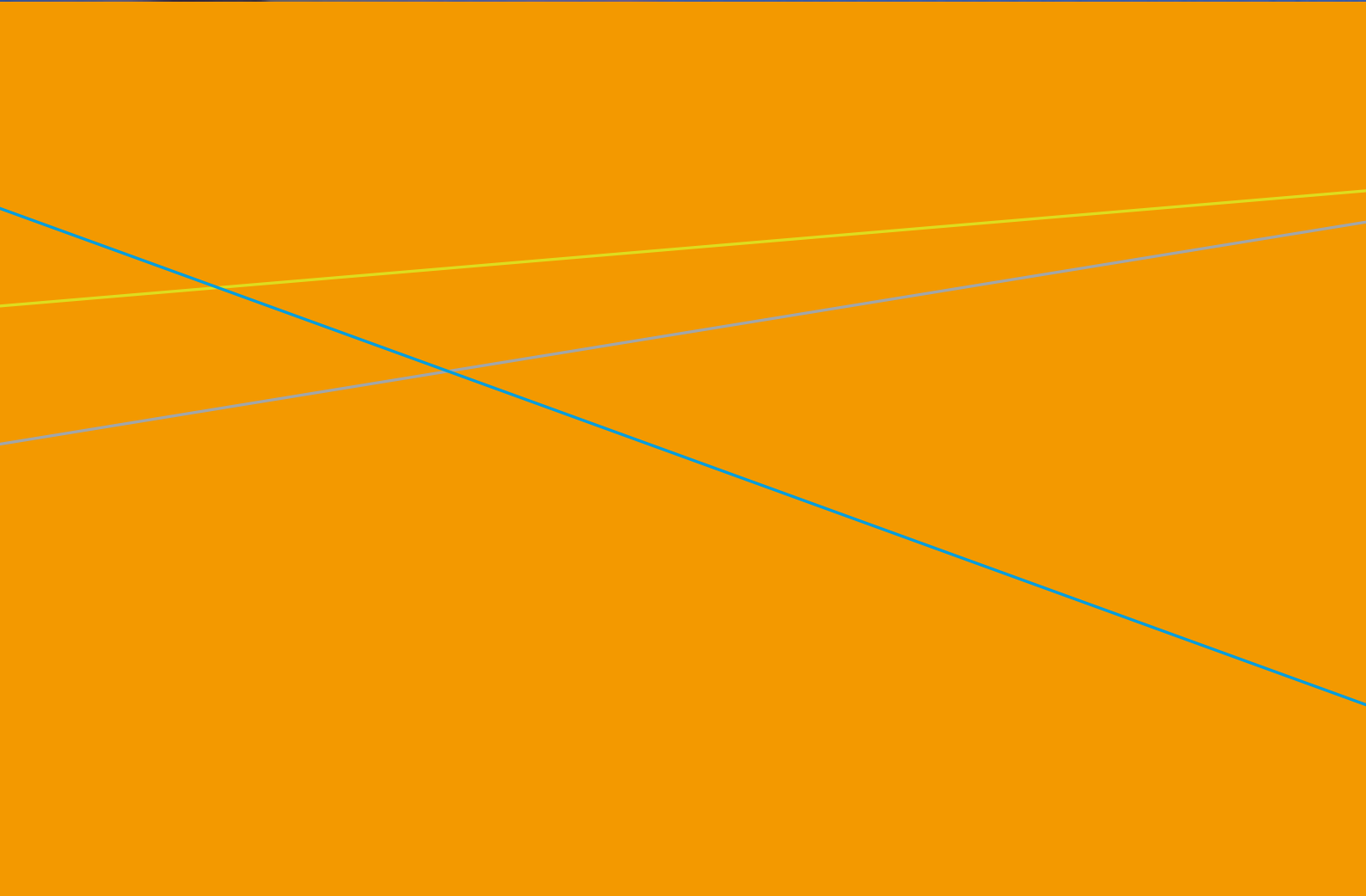


Cable clamp



Grounding kit





Superflexible and Extraflexible Cables

Draka superflexible RFF cables and extraflexible RFE cables offer the most convenient solution for installations in places where limited space requires small bending radius.

Our superflexible RFF cables are typically used as jumper cables. They have extremely high flexibility and crush resistance due to deep spiral corrugation. Our extraflexible RFE cables are perfect for applications where low attenuation must be combined with limited space installations.

High flexibility and low attenuation of our superflexible and extraflexible cables guarantee top performance in all circumstances.

Draka 50 Ohm Radio Frequency Cables

SUPERFLEXIBLE CABLES						
Type	Product code	Inner conductor diam. mm (in)	Outer conductor diam. mm (in)	Jacket diam. mm (in)	Standard length m (ft)	Standard drum type
RFF 1/4"-50	NKRFF01400	1.9 (0.07)	6.4 (0.25)	7.4 (0.29)	250 (820)	P5C
RFF 3/8"-50	NKRFF03800	2.6 (0.10)	9.0 (0.35)	10.1 (0.40)	250 (820)	P5C
RFF 1/2"-50	NKRFF01200	3.55 (0.14)	11.9 (0.47)	13.5 (0.53)	500 (1640)	P11D
RFE 7/8"-50	NKRFE07800	9.4 (0.37)	24.9 (0.98)	27.5 (1.08)	500 (1640)	P13G
RFE 1 1/4"-50	NKRFE11400	13.6 (0.53)	35.8 (1.41)	39.0 (1.53)	600 (1968)	P20G
RFE 1 5/8"-50	NKRFE15800	17.5 (0.69)	46.5 (1.83)	50.0 (1.97)	400 (1312)	P20G



Superflexible cable

RFF 1/4"-50

Specifications

COAXIAL CABLE	
Type	Code
RFF 1/4"-50	NKRFF01400
RFF 1/4"-50 GHF	NKRFF01401
RFF 1/4"-50 BHF	NKRFF01402
RFF 1/4"-50 BHF (UL) CATVR	NKRFF01404

CONSTRUCTION

Inner conductor	Copper wire	Ø 1.9 mm	(0.07 in)
Dielectric	Cellular polyethylene	Ø 4.8 mm	(0.19 in)
Outer conductor	Corrugated copper tube	Ø 6.4 mm	(0.25 in)
Jacket	See Jacketing Options table below	Ø 7.4 mm	(0.29 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
Return loss 24 dB for 100 m (330 ft) cable with NKC connectors for following frequency bands:	
• 380-500 MHz	
• 806-960 MHz	
• 1710-1880 MHz	
• 1900-2170 MHz	
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See attenuation table
Velocity factor	0.83
Capacitance	78.2 pF/m (22.8 pF/ft)
Maximum frequency	21000 MHz
Max power rating	See table
Peak RF voltage rating	0.74 kV
Peak power rating	6.5 kW
DC-resistance	
• Inner conductor	6.2 Ω /km (1.89 Ω /1000 ft)
• Outer conductor	7.7 Ω /km (2.34 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
RFF 1/4"-50	Black, halogen free polyethylene	yes	no	no	yes	no	-40°C (-40°F)
RFF 1/4"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	no	-20°C (-4°F)
RFF 1/4"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	no	-20°C (-4°F)
RFF 1/4"-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	1.79	(0.547)	3.6
30	3.12	(0.950)	2.0
50	4.04	(1.230)	1.6
88	5.38	(1.64)	1.2
100	5.74	(1.75)	1.1
108	5.97	(1.82)	1.1
174	7.61	(2.32)	0.84
200	8.17	(2.49)	0.79
300	10.1	(3.07)	0.64
400	11.7	(3.56)	0.55
450	12.4	(3.78)	0.52
500	13.1	(3.99)	0.49
512	13.3	(4.04)	0.49
600	14.4	(4.39)	0.45
700	15.6	(4.75)	0.41
800	16.7	(5.10)	0.39
850	17.3	(5.26)	0.37
890	17.7	(5.39)	0.36
900	17.8	(5.42)	0.36
950	18.3	(5.58)	0.35
960	18.4	(5.61)	0.35
1000	18.8	(5.73)	0.34
1200	20.7	(6.30)	0.31
1400	22.4	(6.84)	0.29
1600	24.1	(7.34)	0.27
1800	25.6	(7.82)	0.25
1900	26.4	(8.05)	0.25
2000	27.1	(8.27)	0.24
2200	28.6	(8.70)	0.23
2400	29.9	(9.12)	0.22
2600	31.2	(9.52)	0.21
2800	32.5	(9.91)	0.20
3000	33.8	(10.3)	0.19
3400	36.1	(11.0)	0.18
4000	39.5	(12.0)	0.17
6000	49.4	(15.1)	0.13
8000	58.1	(17.7)	0.12
20400	100.0	(30.5)	0.07

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	0.09 kg/m	(0.06 lb/ft)
Maximum pulling force	780 N	(172 lb)
Minimum bending radius		
• Single bending	12.5 mm	(0.5 in)
• Repeated bending	25 mm	(1.0 in)
Operating temperature range	-55...+80°C	(-67...+176°F)
Crush resistance	2.3 kg/mm	(129 lb/in)
Bending moment	1.1 Nm	(0.8 lb-ft)
Recommended clamp spacing	0.5 m	(1.7 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)
RFF 1/4"	P5C	250	(820)	53	(21)	50	(20)	9	(20)	37	(81)	0.14	(4.94)

CODES FOR NKC CONNECTORS

Connector type	Code
7-16 male	NKC2014120
7-16 female	NKC2014220
N male	NKC2014320
N female	NKC2014420
N male Right angle	NKC2014620



Superflexible cable

RFF 3/8"-50

Specifications

COAXIAL CABLE	
Type	Code
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 aluminium 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 (330 ft) cable with NKC connectors for following frequency bands:	
• 380-500 MHz	
• 806-960 MHz	
• 1710-1880 MHz	
• 1900-2170 MHz	
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See attenuation 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)

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)

ATTENUATION			
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).

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)
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)
RFF 3/8"	P5C	250	(820)	53	(21)	50	(20)	9	(20)	45	(98)	0.14	(4.94)

CODES FOR NKC CONNECTORS

Connector type	Code
7-16 male	NKC2038100
7-16 female	NKC2038200
N male	NKC2038300
N female	NKC2038400
7-16 male Right angle	NKC2038500
N male Right angle	NKC2038600



Superflexible cable

RFF 1/2"-50

Specifications

COAXIAL CABLE	
Type	Code
RFF 1/2"-50	NKRFF01200
RFF 1/2"-50 GHF	NKRFF01201
RFF 1/2"-50 BHF	NKRFF01202
RFF 1/2"-50 BHF (UL) CATVR	NKRFF01204

CONSTRUCTION

Inner conductor	Copper-clad aluminium wire	Ø 3.55 mm	(0.14 in)
Dielectric	Cellular polyethylene	Ø 9.0 mm	(0.35 in)
Outer conductor	Corrugated copper tube	Ø 11.9 mm	(0.47 in)
Jacket	See Jacketing Options table below	Ø 13.5 mm	(0.53 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 (330 ft) cable with NKC connectors for following frequency bands:	
• 380-500 MHz	
• 806-960 MHz	
• 1710-1880 MHz	
• 1900-2170 MHz	
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See attenuation table
Velocity factor	0.82
Capacitance	82 pF/m (25 pF/ft)
Maximum frequency	12 500 MHz
Max power rating	See table
Peak RF voltage rating	1.39 kV
Peak power rating	19.0 kW
DC-resistance	
• Inner conductor	2.57 Ω/km (0.78 Ω/1000 ft)
• Outer conductor	3.10 Ω/km (0.94 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
RFF 1/2"-50	Black, halogen free polyethylene	yes	no	no	yes	no	-40°C (-40°F)
RFF 1/2"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	no	-20°C (-4°F)
RFF 1/2"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	no	-20°C (-4°F)
RFF 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	0.972	(0.296)	8.4
30	1.70	(0.517)	4.8
50	2.20	(0.671)	3.7
88	2.94	(0.896)	2.7
100	3.14	(0.957)	2.6
108	3.27	(0.996)	2.5
174	4.18	(1.28)	1.9
200	4.50	(1.37)	1.8
300	5.56	(1.70)	1.4
400	6.48	(1.97)	1.2
450	6.89	(2.10)	1.2
500	7.29	(2.22)	1.1
512	7.38	(2.25)	1.1
600	8.04	(2.45)	0.99
700	8.73	(2.66)	0.91
800	9.38	(2.86)	0.85
850	9.70	(2.96)	0.82
890	9.94	(3.03)	0.80
900	10.0	(3.05)	0.79
950	10.3	(3.14)	0.77
960	10.4	(3.16)	0.77
1000	10.6	(3.23)	0.75
1200	11.7	(3.57)	0.68
1400	12.7	(3.88)	0.62
1600	13.7	(4.18)	0.58
1800	14.7	(4.47)	0.54
1900	15.1	(4.60)	0.52
2000	15.5	(4.74)	0.51
2200	16.4	(5.00)	0.48
2400	17.2	(5.25)	0.46
2600	18.0	(5.50)	0.44
2800	18.8	(5.73)	0.42
3000	19.6	(5.97)	0.40
3400	21.0	(6.41)	0.37
4000	23.1	(7.05)	0.34
6000	29.4	(8.95)	0.27
8000	35.0	(10.7)	0.22
12400	45.9	(14.0)	0.17

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	0.19 kg/m	(0.13 lb/ft)
Maximum pulling force	900 N	(198 lb)
Minimum bending radius		
• Single bending	15 mm	(0.6 in)
• Repeated bending	30 mm	(1.2 in)
Operating temperature range	-55...+80°C	(-67...+176°F)
Crush resistance	3.4 kg/mm	(190 lb/in)
Bending moment	2.7 Nm	(2.0 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)
RFF 1/2"	P11D	500	(1640)	114	(45)	51	(20)	45	(99)	156	(346)	0.66	(23.31)

CODES FOR NKC CONNECTORS

Connector type	Code
7-16 male	NKC2012100
7-16 female	NKC2012200
N male	NKC2012300
N female	NKC2012400
7-16 male Right angle	NKC2012500
N male Right angle	NKC2012600



Extraflexible cable

RFE 7/8"-50

Specifications

COAXIAL CABLE	
Type	Code
RFE 7/8"-50	NKRFE07800
RFE 7/8"-50 GHF	NKRFE07801
RFE 7/8"-50 BHF	NKRFE07802
RFE 7/8"-50 BHF (UL) CATVR	NKRFE07804

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 (330 ft) cable with NKC connectors for following frequency bands:	
• 380-500 MHz	
• 806-960 MHz	
• 1710-1880 MHz	
• 1900-2170 MHz	
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See attenuation table
Velocity factor	0.88
Capacitance	74.3 pF/m (22.7 pF/ft)
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)

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)

ATTENUATION

Frequency MHz	Attenuation dB/100 m	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).

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 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)
RFE 7/8"	P13G	500	(1640)	134	(52)	70	(28)	69	(152)	315	(696)	1.24	(44.50)

CODES FOR NKC CONNECTORS

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



Extraflexible cable

RFE 1 1/4"-50

Specifications

COAXIAL CABLE	
Type	Code
RFE 1 1/4"-50	NKRFE11400
RFE 1 1/4"-50 GHF	NKRFE11401
RFE 1 1/4"-50 BHF	NKRFE11402

CONSTRUCTION

Inner conductor	Corrugated copper tube	Ø 13.6 mm	(0.53 in)
Dielectric	Cellular polyethylene	Ø 32.2 mm	(1.27 in)
Outer conductor	Corrugated copper tube	Ø 35.8 mm	(1.41 in)
Jacket	See Jacketing Options table below	Ø 39.0 mm	(1.53 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 (330 ft) cable with NKC connectors for following frequency bands:	
• 380-500 MHz	
• 806-960 MHz	
• 1710-1880 MHz	
• 1900-2170 MHz	
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See attenuation table
Velocity factor	0.88
Capacitance	74.6 pF/m (22.7 pF/ft)
Maximum frequency	3700 MHz
Max power rating	See table
Peak RF voltage rating	4.5 kV
Peak power rating	187.2 kW
DC-resistance	
• Inner conductor	1.24 Ω/km (0.38 Ω/1000 ft)
• Outer conductor	0.59 Ω/km (0.18 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	Min. installation temperature
RFE 1 1/4"-50	Black, halogen free polyethylene (LDPE with HDPE skin)	yes	no	no	yes	-40°C (-40°F)
RFE 1 1/4"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	-5°C (+23°F)
RFE 1 1/4"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C (+23°F)

ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft	Power rating kW
10	0.256	(0.078)	38
30	0.449	(0.137)	22
50	0.584	(0.178)	17
88	0.784	(0.239)	12
100	0.838	(0.256)	12
108	0.873	(0.266)	11
174	1.12	(0.343)	8.6
200	1.21	(0.369)	8.0
300	1.51	(0.459)	6.4
400	1.76	(0.537)	5.5
450	1.88	(0.537)	5.1
500	1.99	(0.607)	4.8
512	2.02	(0.615)	4.8
600	2.21	(0.672)	4.4
700	2.40	(0.733)	4.0
800	2.59	(0.790)	3.7
850	2.68	(0.817)	3.6
890	2.75	(0.839)	3.5
900	2.77	(0.844)	3.5
950	2.86	(0.871)	3.4
960	2.87	(0.876)	3.4
1000	2.94	(0.897)	3.3
1200	3.27	(0.996)	3.0
1400	3.57	(1.09)	2.7
1600	3.86	(1.18)	2.5
1800	4.14	(1.26)	2.3
1900	4.28	(1.30)	2.2
2000	4.41	(1.34)	2.2
2200	4.67	(1.42)	2.1
2400	4.92	(1.50)	2.0
2600	5.17	(1.57)	1.9
2800	5.40	(1.65)	1.8
3000	5.64	(1.72)	1.7
3300	5.98	(1.82)	1.6

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	0.79 kg/m	(0.53 lb/ft)
Maximum pulling force	5100 N	(1124 lb)
Minimum bending radius		
• Single bending	120 mm	(4.7 in)
• Repeated bending	220 mm	(8.7 in)
Operating temperature range	-55...+80°C	(-67...+176°F)
Crush resistance	2.3 kg/mm	(129 lb/in)
Bending moment	30.2 Nm	(22.3 lb-ft)
Recommended clamp distance	1.5 m	(5 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)
RFE 1 1/4"	P20G	600	(1968)	204	(80)	70	(28)	155	(342)	675	(1486)	3.08	(108.76)

CODES FOR NKC CONNECTORS

Connector type	Code
7-16 male	NKC1114100
7-16 female	NKC1114200
7-16 Bulkhead female	NKC1114290
N male	NKC1114300
N female	NKC1114400



Extraflexible cable

RFE 1 5/8"-50

Specifications

COAXIAL CABLE	
Type	Code
RFE 1 5/8"-50	NKRFE15800
RFE 1 5/8"-50 GHF	NKRFE15801
RFE 1 5/8"-50 BHF	NKRFE15802

CONSTRUCTION

Inner conductor	Corrugated copper tube	Ø 17.5 mm	(0.69 in)
Dielectric	Cellular polyethylene	Ø 42.0 mm	(1.65 in)
Outer conductor	Corrugated copper tube	Ø 46.5 mm	(1.83 in)
Jacket	See Jacketing Options table below	Ø 50.0 mm	(1.97 in)
Marking	Draka, cable type, manufacture week, year, batch number and meter mark		

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

Characteristic impedance	50 ± 1
Return loss 24 dB for 100 m (330 ft) cable with NKC connectors for following frequency bands:	
• 380-500 MHz	
• 806-960 MHz	
• 1710-1880 MHz	
• 1900-2170 MHz	
Other bands also available on request	
Bands according to customer's specifications	
Attenuation	See attenuation table
Velocity factor	0.88
Capacitance	73.8 pF/m (23 pF/ft)
Maximum frequency	2800 MHz
Max power rating	See table
Peak RF voltage rating	5.0 kV
Peak power rating	284.0 kW
DC-resistance	
• Inner conductor	1.23 Ω/km (0.37 Ω/1000 ft)
• Outer conductor	0.38 Ω/km (0.12 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	Min. installation temperature
RFE 1 5/8"-50	Black, halogen free polyethylene	yes	no	no	yes	-20°C (-4°F)
RFE 1 5/8"-50 GHF	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	-5°C (+23°F)
RFE 1 5/8"-50 BHF	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C (+23°F)

ATTENUATION			
Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft	Power rating kW
10	0.198	(0.060)	55
30	0.349	(0.106)	31
50	0.456	(0.139)	24
88	0.615	(0.187)	18
100	0.659	(0.201)	16
108	0.686	(0.209)	16
174	0.889	(0.271)	12
200	0.959	(0.292)	11
300	1.20	(0.366)	9.0
400	1.41	(0.430)	7.7
450	1.51	(0.460)	7.2
500	1.60	(0.489)	6.7
512	1.63	(0.496)	6.6
600	1.78	(0.543)	6.0
700	1.95	(0.594)	5.5
800	2.11	(0.643)	5.1
850	2.19	(0.666)	4.9
890	2.25	(0.685)	4.8
900	2.26	(0.689)	4.8
950	2.34	(0.712)	4.6
960	2.35	(0.716)	4.6
1000	2.41	(0.734)	4.5
1200	2.69	(0.819)	4.0
1400	2.95	(0.900)	3.6
1600	3.21	(0.977)	3.4
1800	3.45	(1.05)	3.1
1900	3.57	(1.09)	3.0
2000	3.69	(1.12)	2.9
2200	3.91	(1.19)	2.7
2400	4.14	(1.26)	2.6
2600	4.35	(1.33)	2.5

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	1.19 kg/m	(0.80 lb/ft)
Maximum pulling force	2700 N	(595 lb)
Minimum bending radius		
• Single bending	200 mm	(7.9 in)
• Repeated bending	350 mm	(13.8 in)
Operating temperature range	-55...+80°C	(-67...+176°F)
Crush resistance	2.1 kg/mm	(118 lb/in)
Bending moment	48.1 Nm	(35.5 lb-ft)
Recommended clamp distance	1.0 m	(3.3 ft)

STANDARD DRUM

Cable type	Drum	Standard length		Outer diam. (D)		Outer width (W)		Drum weight (empty) kg (lb)	Total weight		Drum freight volume m ³ (cu.ft)		
		m	(ft)	cm	(in)	cm	(in)		kg	(lb)			
RFE 1 5/8"	P20G	400	(1312)	204	(80)	70	(28)	155	(342)	677	(1492)	3.08	(108.76)

CODES FOR NKC CONNECTORS

Connector type	Code
7-16 male	NKC1158100
7-16 female	NKC1158200
7-16 Bulkhead female	NKC1158290
N male	NKC1158300
N female	NKC1158400



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