

RG Type Cable

RF174 Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections

GENERAL INFORMATION

Cable Type	PE-Dielectric, Braid Shield
Size	5/64"

STRUCTURE

Jacket	PVC
Inner Conductor Material	Stranded Copper Wire 7x0.16mm (7x0.0063in)
Diameter Inner Conductor, mm (in)	0.48 (0.019)
Diameter Dielectric, mm (in)	1.5 (0.06)
Outer Conductor Material	Tinned copper braid with 85% of coverage
Diameter Copper Outer Conductor, mm (in)	1.91 (0.07)
Diameter over Jacket Nominal, mm (in)	2.7 (0.11)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft)	0.012 (0.008)
Minimum Bending Radius, Single Bend, mm (in)	14 (0.55)
Minimum Bending Radius, Repeated Bends, mm (in)	42 (1.65)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm	50 +/- 2
Velocity, percent	66
Capacitance, pF/m (pF/ft)	100 (30.5)
Inductance, µH/m (µH/ft)	0.25 (0.076)
Maximum Frequency, GHz	2.4
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	122 (37.2)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	36 (11)

See Installation, Operation and Storage Temperatures on page 28.

CONNECTORS AND ACCESSORIES

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Accessories	See pages 88-105
Coaxial Devices	See pages 106-108
Technical Appendix	See pages 639-648



RF174-50JF ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
0.5	2.90	0.884
1.0	4.00	1.22
5.0	8.20	2.50
10	8.90	2.71
20	11.7	3.57
30	14.0	4.27
50	18.0	5.49
88	24.7	7.53
100	26.0	7.92
108	27.3	8.32
150	33.8	10.3
174	36.4	11.1
200	38.9	11.9
300	48.0	14.6
400	55.0	16.8
450	58.6	17.9
500	62.0	18.9
512	63.0	19.2
600	67.4	20.5
700	73.0	22.2
800	83.2	25.4
824	84.7	25.8
894	88.0	26.8
900	88.3	26.9
925	90.0	27.4
960	92.0	28.0
1000	93.0	28.3
1250	106	32.3
1500	114	34.7
1700	122	37.2
1800	126	38.4
2000	134	40.8
2400	150	45.7

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

ORDERING INFORMATION

Model Number	Jacket
RF174-50JF	Standard

RG Type Cable

RG58 Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections

GENERAL INFORMATION

Cable Type	PE-Dielectric, Braid Shield
Size	9/64"

STRUCTURE

Jacket	PVC
Inner Conductor Material	Stranded Tinned Wire 19x0.18mm (19x0.007in)
Diameter Inner Conductor, mm (in)	0.9 (0.035)
Diameter Dielectric, mm (in)	2.9 (0.11)
Outer Conductor Material	Tinned copper braid with 96% of coverage
Diameter Copper Outer Conductor, mm (in)	3.55 (0.14)
Diameter over Jacket Nominal, mm (in)	5.0 (0.197)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft)	0.037 (0.024)
Minimum Bending Radius, Single Bend, mm (in)	25.4 (1)
Minimum Bending Radius, Repeated Bends, mm (in)	100 (3.94)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm	50 +/- 2
Velocity, percent	66
Capacitance, pF/m (pF/ft)	101 (30.8)
Inductance, μ H/m (μ H/ft)	0.253 (0.077)
Maximum Frequency, GHz	2.4
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	39 (11.89)
Outer Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	15 (4.6)

See Installation, Operation and Storage Temperatures on page 28.



RG58-50JF ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
0.5	1.30	0.396
1.0	1.60	0.488
5.0	3.40	1.04
10	4.80	1.46
20	6.80	2.07
30	8.50	2.59
50	10.9	3.32
88	14.7	4.48
100	15.6	4.75
108	16.2	4.94
150	19.2	5.85
174	22.4	6.83
200	24.0	7.31
300	29.0	8.84
400	34.0	10.4
450	36.2	11.0
500	40.0	12.2
512	40.5	12.3
600	42.8	13.0
700	49.0	14.9
800	50.0	15.2
824	51.0	15.5
894	56.8	17.3
900	57.0	17.4
925	58.6	17.9
960	59.0	18.0
1000	61.0	18.6
1250	70.0	21.3
1500	80.4	24.5
1700	89.4	27.2
1800	92.0	28.0
2000	100	30.5
2400	116	35.4

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

CONNECTORS AND ACCESSORIES

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Coaxial Devices	See pages 106-108
Technical Appendix	See pages 639-648

ORDERING INFORMATION

Model Number	Jacket
RG58-50JF	Standard

RG Type Cable

RG223 Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections

GENERAL INFORMATION

Cable Type	PE-Dielectric, Double Braid Shield
Size	5/32"

STRUCTURE

Jacket	PVC
Inner Conductor Material	Silver Plated Copper-Wire
Diameter Inner Conductor, mm (in)	0.9 (0.035)
Diameter Dielectric, mm (in)	2.96 (0.117)
Outer Conductor Material	1st shield: Silver plated copper braid with 96% of coverage; 2nd shield: Silver plated copper braid with 94% of coverage
Diameter Copper Outer Conductor, mm (in)	4.1 (0.16)
Diameter over Jacket Nominal, mm (in)	5.4 (0.213)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft)	0.055 (0.121)
Minimum Bending Radius, Single Bend, mm (in)	30 (1.18)
Minimum Bending Radius, Repeated Bends, mm (in)	55 (2.165)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm	50 +/- 2
Velocity, percent	66
Capacitance, pF/m (pF/ft)	94.8 (28.9)
Inductance, μ H/m (μ H/ft)	0.237 (0.072)
Maximum Frequency, GHz	6.0
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	29 (8.84)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	7.5 (2.29)

See Installation, Operation and Storage Temperatures on page 28.

RG223-50JF ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
300	24.8	7.56
600	36.4	11.1
900	45.9	14.0
1200	54.3	16.5
1500	61.9	18.9
1800	69.0	21.0
2100	75.7	23.1
2400	82.2	25.0
2700	88.3	26.9
3000	94.3	28.7
3300	100	30.5
3600	106	32.2
3900	111	33.9
4200	117	35.5
4500	122	37.2
4800	127	38.7
5100	132	40.3
5400	137	41.8
5700	142	43.3
6000	147	44.8

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

CONNECTORS AND ACCESSORIES

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ORDERING INFORMATION

Model Number	Jacket
RG223-50JF	Standard

RG Type Cable

RG213 Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections, GPS lines,
Microwave IF cabling

GENERAL INFORMATION

Cable Type PE-Dielectric, Braid Shield
Size 5/16"

STRUCTURE

Jacket PVC
Inner Conductor Material Stranded Tinned Wire
7x0.75mm (7x0.03in)
Diameter Inner Conductor, mm (in) 2.26 (0.09)
Diameter Dielectric, mm (in) 7.25 (0.28)
Outer Conductor Material Tinned copper braid
with 96% of coverage
Diameter Copper Outer Conductor,
mm (in) 8.11 (0.32)
Diameter over Jacket Nominal,
mm (in) 10.31 (0.41)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft) 0.155 (0.103)
Minimum Bending Radius,
Single Bend, mm (in) 50.0 (1.97)
Minimum Bending Radius,
Repeated Bends, mm (in) 205 (8.0)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm 50 +/- 2
Velocity, percent 66
Capacitance, pF/m (pF/ft) 101 (30.8)
Inductance, µH/m (µH/ft) 0.253 (0.077)
Maximum Frequency, GHz 2.0
Inner Conductor dc Resistance,
ohm/1000 m (ohm/1000 ft) 5.8 (1.76)
Outer Conductor dc Resistance,
ohm/1000 m (Ohm/1000 ft) 4.1 (1.25)

See Installation, Operation and Storage Temperatures on page 28.

CONNECTORS AND ACCESSORIES

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RG213-50JF ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
0.5	0.450	0.137
1.0	0.630	0.192
1.5	0.770	0.235
10	2.00	0.610
30	3.60	1.10
50	4.60	1.40
100	6.90	2.10
200	10.2	3.11
400	15.2	4.63
600	18.1	5.52
800	23.0	7.01
1000	27.3	8.32
2000	40.0	12.2

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

ORDERING INFORMATION

Model Number	Jacket
RG213-50JF	Standard



RG Type Cable

RG214 Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections, GPS lines, Microwave IF cabling

GENERAL INFORMATION

Cable Type PE-Dielectric,
Double Braid Shield

Size 3/8"

STRUCTURE

Jacket PVC

Inner Conductor Material Stranded Silver Plated Wire
7x0.75mm (7x0.03in)

Diameter Inner Conductor, mm (in) 2.25 (0.089)

Diameter Dielectric, mm (in) 7.28 (0.287)

Outer Conductor Material 1st shield: Silver plated
copper braid with 93%
of coverage;
2nd shield: Silver plated
copper braid with 95%
of coverage

Diameter Copper Outer Conductor,
mm (in) 8.7 (0.343)

Diameter over Jacket Nominal,
mm (in) 10.8 (0.425)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft) 0.185 (0.408)

Minimum Bending Radius,
Single Bend, mm (in) 55.0 (2.165)

Minimum Bending Radius,
Repeated Bends, mm (in) 110 (4.33)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm 50 +/- 2

Velocity, percent 66

Capacitance, pF/m (pF/ft) 101 (30.8)

Inductance, μ H/m (μ H/ft) 0.253 (0.077)

Maximum Frequency, GHz 6.0

Inner Conductor dc Resistance,
ohm/1000 m (ohm/1000 ft)

Outer Conductor dc Resistance,
ohm/1000 m (ohm/1000 ft)

See Installation, Operation and Storage Temperatures on page 28.

CONNECTORS AND ACCESSORIES

Connectors See page 78

Accessories See pages 88-105

Coaxial Devices See pages 106-108

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RG214-50JF ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
300	12.0	3.66
600	19.0	5.79
900	24.0	7.31
1200	29.0	8.84
1500	33.0	10.1
1800	37.0	11.3
2100	41.0	12.5
2400	45.0	13.7
2700	49.0	14.9
3000	52.0	15.8
3300	56.0	17.1
3600	60.0	18.3
3900	63.0	19.2
4200	66.0	20.1
4500	70.0	21.3
4800	73.0	22.2
5100	76.0	23.2
5400	79.0	24.1
5700	83.0	25.3
6000	86.0	26.2

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

ORDERING INFORMATION

Model Number	Jacket
RG214-50JF	Standard

RG Type Cable

RGC58 Foam-Dielectric Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections

GENERAL INFORMATION

Cable Type	Foam-Dielectric, Braid/Foil Shield
Size	9/64"
STRUCTURE	
Jacket	PE
Inner Conductor Material	Copper Wire
Diameter Inner Conductor, mm (in)	1.06 (0.040)
Diameter Dielectric, mm (in)	2.95 (0.117)
Outer Conductor Material	1st shield: Al/PET foil bonded to the core with 100% of coverage; 2nd shield: Tinned copper braid with 75% of coverage
Diameter Copper Outer Conductor, mm (in)	3.60 (0.141)
Diameter over Jacket Nominal, mm (in)	5.0 (0.197)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft)	0.030 (0.020)
Minimum Bending Radius, Single Bend, mm (in)	25.4 (1)
Minimum Bending Radius, Repeated Bends, mm (in)	100 (3.94)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm	50 +/- 2
Velocity, percent	82
Capacitance, pF/m (pF/ft)	82 (25.0)
Inductance, μ H/m (μ H/ft)	0.205 (0.062)
Maximum Frequency, GHz	2.4
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	21.5 (6.55)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	19.1 (5.8)

See Installation, Operation and Storage Temperatures on page 28.

RGC58-50J ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
0.5	1.00	0.305
1.0	1.30	0.396
5.0	2.80	0.853
10	3.70	1.13
20	4.70	1.43
30	5.70	1.74
50	7.30	2.22
88	9.80	2.99
100	10.4	3.17
108	10.9	3.32
150	13.0	3.96
174	14.0	4.27
200	15.0	4.57
300	18.4	5.61
400	21.2	6.46
450	22.6	6.89
500	23.8	7.25
512	24.0	7.31
600	26.0	7.92
700	28.9	8.81
800	30.8	9.39
824	32.2	9.81
894	33.5	10.2
900	33.7	10.3
925	34.0	10.4
960	34.7	10.6
1000	35.4	10.8
1250	42.0	12.8
1500	46.0	14.0
1700	49.0	14.9
1800	51.0	15.5
2000	55.0	16.8
2400	62.0	18.9

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

CONNECTORS AND ACCESSORIES

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ORDERING INFORMATION

Model Number	Jacket
RGC58-50J	Standard

RG Type Cable

RGC213 Foam-Dielectric Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections, GPS lines, Microwave IF cabling

GENERAL INFORMATION

Cable Type	Foam-Dielectric, Braid/Foil Shield
Size	5/16"
STRUCTURE	
Jacket	PE
Inner Conductor Material	Copper Wire
Diameter Inner Conductor, mm (in)	2.55 (0.100)
Diameter Dielectric, mm (in)	7.25 (0.285)
Outer Conductor Material	1st shield: Al/PET foil bonded to the core with 100% of coverage; 2nd shield: Tinned copper braid with 75% of coverage
Diameter Copper Outer Conductor, mm (in)	8.14 (0.320)
Diameter over Jacket Nominal, mm (in)	10.34 (0.407)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft)	0.120 (0.080)
Minimum Bending Radius, Single Bend, mm (in)	50.0 (1.97)
Minimum Bending Radius, Repeated Bends, mm (in)	205 (8.07)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm	50 +/- 2
Velocity, percent	82
Capacitance, pF/m (pF/ft)	82 (25.0)
Inductance, µH/m (µH/ft)	0.205 (0.062)
Maximum Frequency, GHz	3.0
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	3.5 (1.06)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	8.0 (2.43)

See Installation, Operation and Storage Temperatures on page 28.

RGC213-50J ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
0.5	0.555	0.169
1.0	0.784	0.239
1.5	0.841	0.256
2.0	0.971	0.296
10	1.57	0.479
20	2.05	0.625
30	2.38	0.725
50	2.97	0.905
88	3.86	1.18
100	4.15	1.26
108	4.34	1.32
150	5.20	1.58
174	5.63	1.72
200	6.10	1.86
300	7.63	2.33
400	8.96	2.73
450	9.53	2.90
500	10.0	3.05
512	10.2	3.11
600	11.2	3.41
700	12.2	3.72
800	13.2	4.02
824	13.4	4.08
894	13.9	4.24
900	14.0	4.27
925	14.3	4.36
960	14.6	4.45
1000	14.9	4.54
1250	16.9	5.15
1500	18.8	5.73
1700	20.2	6.16
1800	20.9	6.37
2000	22.3	6.80
2200	24.0	7.31
2300	24.6	7.50
3000	28.4	8.66

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

CONNECTORS AND ACCESSORIES

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ORDERING INFORMATION

Model Number	Jacket
RGC213-50J	Standard

RG Type Cable

RGC8 Foam-Dielectric Coax Braided Cable

APPLICATIONS

OEM jumpers, BTS inter-cabinet connections, GPS lines,
Microwave IF cabling

GENERAL INFORMATION

Cable Type	Foam-Dielectric, Braid/Foil Shield
Size	5/16"

STRUCTURE

Jacket	PE
Inner Conductor Material	Copper Wire
Diameter Inner Conductor, mm (in)	2.74 (0.108)
Diameter Dielectric, mm (in)	7.37 (0.290)
Outer Conductor Material	1st shield: Al/PET foil bonded to the core with 100% of coverage; 2nd shield: Tinned copper braid with 88% of coverage

Diameter Copper Outer Conductor, mm (in)	8.13 (0.320)
Diameter over Jacket Nominal, mm (in)	10.24 (0.403)

MECHANICAL SPECIFICATIONS

Cable Weight, kg/m (lb/ft)	0.133 (0.088)
Minimum Bending Radius, Single Bend, mm (in)	25.4 (1)
Minimum Bending Radius, Repeated Bends, mm (in)	60 (2.36)

ELECTRICAL SPECIFICATIONS

Impedance, Ohm	50 +/- 2
Velocity, percent	85
Capacitance, pF/m (pF/ft)	78 (23.8)
Inductance, µH/m (µH/ft)	0.195 (0.059)
Maximum Frequency, GHz	3.0
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	3.0 (0.91)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	5.3 (1.62)

See Installation, Operation and Storage Temperatures on page 28.

CONNECTORS AND ACCESSORIES

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RGC8-50J ATTENUATION

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
0.5	0.363	0.111
1.0	0.453	0.138
1.5	0.623	0.190
2.0	0.802	0.244
10	1.50	0.457
20	2.12	0.646
30	2.46	0.750
50	3.10	0.945
88	3.85	1.17
100	4.08	1.24
108	4.22	1.29
150	4.88	1.49
174	5.23	1.59
200	5.61	1.71
300	6.95	2.12
400	8.09	2.47
450	8.65	2.64
500	9.13	2.78
512	9.24	2.82
600	10.1	3.08
700	10.9	3.32
800	11.8	3.60
824	12.0	3.66
894	12.5	3.81
900	12.6	3.84
925	12.8	3.90
960	13.0	3.96
1000	13.2	4.02
1250	14.9	4.54
1500	16.5	5.03
1700	17.7	5.39
1800	18.2	5.55
2000	19.4	5.91
2200	21.4	6.52
2300	21.8	6.64
3000	24.3	7.41

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20° C (68° F).

ORDERING INFORMATION

Model Number	Jacket
RGC8-50J	Standard