



50 Ohm coaxial cable RG213 LSZH MIL Type



Store at: -0 to +60 °C

Install at: 0 to +50 °C, **Bend minimum:** 10xO.D. (unarmored) or 20xO.D. (armored)

Operate at: -20 to +70 °C, **Bend minimum:** 15xO.D. (unarmored) or 20xO.D. (armored)

Design

Conductor : bare copper 7×0.76mm

Dielectric : polyethylene nominal Ø 7.25mm

Screen : bare copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - RG 213 type MIL LSZH - 75 OHM - P/N - lot + meter

Armoured version is supplied with additional:

Armour : galvanized steel or tinned copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - ARMOURED RG 213 type MIL LSZH - 75 OHM - P/N - lot + meter

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2

Halogen acid gas corrosiveness : TS EN 50267-2-3

Smoke Emission : IEC 61034-2

Flame retardant : IEC 60332-1-1, IEC60332-2-1

Electrical characteristics

Impedance : $50 \pm 3 \Omega$

Capacitance : 101pF/m nominal

Velocity ratio : 66%

Insulation resistance : 10000 MΩ x Km

Spark tension of the sheath : 2.0 kV

Attenuation (typical)

MHz	100	200	400	600	800	1000
dB	7.2	11.0	15.5	21.0	25.0	29.0

Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG213 Non-armoured	RG213MT	10.2	163	500m or 1000m (+/-5%)
RG213 armoured GSWB	RG213MTBH	14.5	250	500m (+/-5%)
RG213 armoured TCWB	RG213MTTH	14.5	235	500m (+/-5%)

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50 Ohm coaxial cable RG214 LSZH MIL Type



Store at: -0 to +60 °C

Install at: 0 to +50 °C, **Bend minimum:** 10xO.D. (unarmored) or 20xO.D. (armored)

Operate at: -20 to +70 °C, **Bend minimum:** 15xO.D. (unarmored) or 20xO.D. (armored)

Design

Conductor : bare copper 7×0.76mm

Dielectric : polyethylene nominal Ø 7.25mm

Screen 1 : silvered copper wire braid

Screen 2 : silvered copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - RG 214 type MIL LSZH - 75 OHM - P/N - lot + meter

Armoured version is supplied with additional:

Armour : galvanized steel or tinned copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - ARMOURED RG 214 type MIL LSZH - 75 OHM - P/N
- lot + meter

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2

Halogen acid gas corrosiveness : TS EN 50267-2-3

Smoke Emission : IEC 61034-2

Flame retardant : IEC 60332-1-1, IEC60332-2-1

Electrical characteristics

Impedance : $50 \pm 3 \Omega$

Capacitance : 101pF/m nominal

Velocity ratio : 66%

Insulation resistance : 10000 M Ω x Km

Spark tension of the sheath : 2.0 kV

Attenuation (typical)

MHz	100	200	400	600	800	1000
dB	7.0	10.5	15.0	20.0	23.5	28.5

Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG214 Non-armoured	RG214MT	10.8	200	500m or 1000m (+/-5%)
RG214 armoured GSWB	RG214MTBH	15.2	290	500m (+/-5%)
RG214 armoured TCWB	RG214MTTH	15.2	275	500m (+/-5%)

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75 Ohm coaxial cable RG11 LSZH MIL Type



Store at: -0 to +60 °C

Install at: 0 to +50 °C, **Bend minimum:** 10xO.D. (unarmored) or 20xO.D. (armored)

Operate at: -20 to +70 °C, **Bend minimum:** 15xO.D. (unarmored) or 20xO.D. (armored)

Design

Conductor : tinned copper Ø 1.63mm nominal

Dielectric : polyethylene nominal Ø 7.20mm

Screen 1 : aluminium tape

Screen 2 : copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - RG 11 type MIL LSZH - 75 OHM - P/N - lot + meter

Armoured version is supplied with additional:

Armour : galvanized steel or tinned copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - ARMoured RG 11 type MIL LSZH - 75 OHM - P/N - lot + meter

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2

Halogen acid gas corrosiveness : TS EN 50267-2-3

Smoke Emission : IEC 61034-2

Flame retardant : IEC 60332-1-1, IEC60332-2-1

Electrical characteristics

Impedance : $75 \pm 3 \Omega$

Capacitance : 53pF/m nominal

Velocity ratio : 82%

Insulation resistance : 10000 M Ω x Km

Spark tension of the sheath : 2.0 kV

Attenuation (typical)

MHz	100	200	400	600	800	1000
dB	4.7	6.5	9.5	12.3	14.0	16.2

Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG11 Non-armoured	RG11MT	10.0	145	500m or 1000m (+/-5%)
RG11 armoured GSWB	RG11MTBH	14.2	232	500m (+/-5%)
RG11 armoured TCWB	RG11MTTH	14.2	218	500m (+/-5%)

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75 Ohm coaxial cable RG59 LSZH MIL Type



Store at: -0 to +60 °C

Install at: 0 to +50 °C, **Bend minimum:** 10xO.D. (unarmored) or 20xO.D. (armored)

Operate at: -10 to +70 °C, **Bend minimum:** 5xO.D. (unarmored) or 15xO.D. (armored)

Design

Conductor : copperweld Ø 0.58 ± 0.025 mm

Dielectric : low density polyethylene nominal Ø 3.70mm

Screen 1 : aluminium/poleysther/aluminium tape

Screen 2 : bare copper braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - RG 59 type MIL LSZH - 75 OHM - lot + meter

Armoured version is supplied with additional:

Armour : galvanized steel or tinned copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - ARMOURED RG 59 type MIL LSZH - 75 OHM - lot + meter

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2

Halogen acid gas : IEC 60754-1, IEC 60754-2

Smoke Emission : IEC 61034-2

Flame retardant : IEC 60332-1-1, IEC60332-2-1

Electrical characteristics

Impedance : 75Ω nominal

Capacitance : 67pF/m nominal

Inner conductor resistance @ 500V : 154Ω/km nominal

Spark tension of the sheath : 2.0 kV

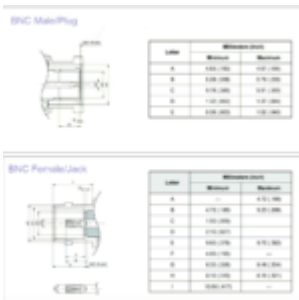
Attenuation (typical)

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	4.0	5.4	9.3	14.7	19.0	23.6	29.8	32.0	37.5	42.6	51.7	54.8	59.2	65.6	69.7	73.0	77.7	61.1

Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG59 Non-armoured	RG59MT	6.2	57.2	500m or 1000m (+/-5%)
RG59 armoured GSWB	RG59MTBH	9.4	144.2	500m (+/-5%)
RG59 armoured TCWB	RG59MTTH	9.4	130.0	500m (+/-5%)

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50 Ohm connector BNC



Features

- Straight and right angle
- For flexible, semi-flex and semi-rigid cables
- PCB connectors (straight and right angle)

- Panel connectors in various flanges
- Adapters

Application

- Cable Assembly
- Antenna, CATV, Satcom
- Automotive
- Medical Equipment
- Radios, Telecommunications, Base Stations
- Instrumentation

Materials

Body, coupling nut Brass, Zinc alloy(diecast)

Insulator Teflon, Delrin

Center contact Brass for male / Beryllium copper or Phosphor bronze for female

Crimping sleeve Annealed Brass

Body plating Nickel (Ni)

Center contact plating Gold (Au)

Electrical Characteristics

Impedance 50 Ohm

Frequency range 0-4 GHz

VSWR Straight type ≤ 1.3 max

Dielectric withstanding voltage 1500 V rms
Working voltage 500 V rms
Center contact resistance ≤ 1.5 mΩ (Milliohms max.)
Outer contact resistance ≤ 2.0 mΩ (Milliohms max.)
Insulation resistance ≥ 5000 MΩ (Megohms min.)

Mechanical Characteristics

Coupling 2-stud bayonet
Contact Retention 100 lbs. min.
Vibration MIL-STD-202 Meth. 204
Corrosion resistance MIL-STD-202 Meth. 101

Environmental Characteristics

Temperature Range Teflon -65°C ~ +85 °C
Coupling nut retention 100 lbs. min.
Vibration MIL-STD-202 Meth. 204
Corrosion resistance MIL-STD-202 Meth. 101

Note : all characteristics and values are typical.

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75 Ohm Coaxial cable RG6 CCS double screen PVC



Installation Features

Store at -10 to +50 °C

Install at -10 to +50 °C, **Bend minimum** : 20 times O.D.

Operate at : -0 to +60 °C, **Bend minimum** : 20 times O.D.

Pull maximum : 100N

Design

Conductor : solid CCS 1.02mm

Dielectric : foam PE nominal Ø 4.60mm

Screen 1 : bonded AL/P nominal Ø 4.75mm

Screen 2 : Aluminium wire braid nominal coverage 60%

Jacket : black PVC material nominal Ø 6.86mm

Marking : APS Finland - ww/yy - 75 Ohm CATV RG6 CCS - P/N CCS6AB6VKB3 - lot - meter

Environmental properties and Fire Performances

Flame retardant : IEC60332-1-2

Electrical Characteristics

Characteristic impedance (Ohm)	75+/-3
Capacitance (pF/m)	52+/-2
Velocity of Propagation (%)	85.0
Return Loss (dB) 5-1000MHz	≥22

Frequency	Attenuation db/100ft	Attenuation dB/100 meter
55	1.6	5.2
187	2.8	9.3

211	3.1	10
400	4.1	13.5
500	4.6	15.0
750	5.6	18.5
860	6.1	20.0
1000	6.6	21.5

Recommended connectivity

BNC connectors : APS BNC75

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75 Ohm connector BNC



Features

- Straight and right angle
- For flexible, semi-flex and semi-rigid cables
- PCB connectors (straight and right angle)
- Panel connectors in various flanges
- Adapters

Application

- Cable Assembly
- Antenna, CATV, Satcom
- Automotive
- Medical Equipment
- Radios, Telecommunications, Base Stations
- Instrumentation

Materials

Body, coupling nut Brass, Zinc alloy(diecast)

Insulator Teflon, Delrin

Center contact Brass for male / Beryllium copper or Phosphor bronze for female

Crimping sleeve Annealed Brass

Body plating Nickel (Ni)

Center contact plating Gold (Au)

Electrical Characteristics

Impedance 75 Ohm

Frequency range 0-1 GHz

VSWR Straight type ≤ 1.3 max

Dielectric withstanding voltage 1500 V rms

Working voltage 500 V rms

Center contact resistance ≤ 1.5 m Ω (Milliohms max.)

Outer contact resistance ≤ 2.0 m Ω (Milliohms max.)

Insulation resistance ≥ 5000 M Ω (Megohms min.)

Mechanical Characteristics

Coupling 2-stud bayonet

Contact Retention 100 lbs. min.

Vibration MIL-STD-202 Meth. 204

Corrosion resistance MIL-STD-202 Meth. 101

Environmental Characteristics

Temperature Range Teflon $-65^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Coupling nut retention 100 lbs. min.

Vibration MIL-STD-202 Meth. 204

Corrosion resistance MIL-STD-202 Meth. 101

Note : all characteristics and values are typical.

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75 Ohm coaxial cable RG6 LSZH MIL Type



Store at: -0 to +60 °C

Install at: 0 to +50 °C, **Bend minimum:** 10xO.D. (unarmored) or 20xO.D. (armored)

Operate at: -20 to +70 °C, **Bend minimum:** 5xO.D. (unarmored) or 15xO.D. (armored)

Design

Conductor : bare copper Ø 1.02mm nominal

Dielectric : low density polyethylene nominal Ø 4.60mm

Screen 1 : aluminium tape

Screen 2 : aluminium wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - RG 6 type MIL LSZH - 75 OHM - lot + meter

Armoured version is supplied with additional:

Armour : galvanized steel or tinned copper wire braid

Outer jacket : black LSZH material

Marking : APS Finland - ww/yy - ARMOURED RG 6 type MIL LSZH - 75 OHM - lot + meter

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2

Halogen acid gas corrosiveness : TS EN 50267-2-3

Smoke Emission : IEC 61034-2

Flame retardant : IEC 60332-1-1, IEC60332-2-1

Electrical characteristics

Impedance : $75 \pm 3 \Omega$

Capacitance : 53pF/m nominal

Insulation resistance : 10000 M Ω x Km

Spark tension of the sheath : 2.0 kV

Attenuation (typical)

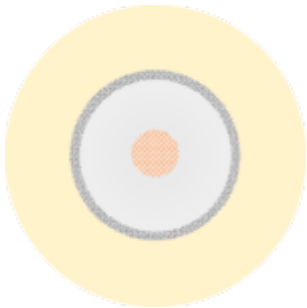
MHz	100	200	300	400	600	800	1000
dB	7.0	10.2	12.0	14.8	18.5	20.8	24.8

Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG6 Non-armoured	RG6MT	7.0	110	500m or 1000m (+/-5%)
RG6 armoured GSWB	RG6MTBH	11.2	197	500m (+/-5%)
RG6 armoured TCWB	RG6MTTH	11.2	183	500m (+/-5%)

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Coaxial cable 50 Ohm PLENUM RG58/U



Store at: -40 to +70 °C

Install at -10 to +50 °C, **Bend minimum** 15 times O.D.

Operate at -40 to +200°C, **Bend minimum** 10 times O.D.

Max recommended pulling tension 40 lbs

Design

Conductor : stranded barecopper AWG20 19×32

Dielectric : foam FEP 0.102"

Screen 1 : tinned copper braid coverage 95%

Outer jacket : Ivory FEP 0.158" nom.

Marking : APS Finland - ww/yy - RG58 PLENUM - 50 OHM - 200°C FT6 - lot + ft

Note : the Jacket is sequentially footmarked.

Environmental properties and Fire Performances

Flame retardant : NFPA 262 PLENUM, FT6

Electrical characteristics

Impedance : 52 Ω nominal

Capacitance : 25 pF/ft nominal (@ 1KHz)

Velocity ratio : 82%

DC resistance @ 20°C : 8.8 Ω /1m nominal

Attenuation

MHz	1	10	50	100	400	700	900	1000
dB/100FT	0.5	1.3	3.2	4.9	11.1	15.3	18.4	19.6

Ordering and delivery information

Type	P/N	O.D [in / mm]	Weight [lbs/m / kg/m]	Packaging (standard)
RG58/U PLENUM	C50R58P	0.158 / 4.0	0.17 / 7.72	1000ft or 305m (+/-5%)

Other standards of reference

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