

Coaxial Cable

Construction of Coaxial Cable



Coaxial Cable

Conductor
(Copper/CCS/CCA)

Dielectric
(Solid PE / Foamed PE)

Braiding
1)Copper wire
2)CCS wire
3)CCA wire
4)Al wire

Jacket
1)PVC
2)PE

Shield Foil

- 1)Al/PET foil
- 2)Bonded Al/PET
- 3)Al/PET/Al
- 4)Bonded Al/PET/Al
- 5)Bonded Copper/PET

Messenger

- 1)Copper
- 2)CCS
- 3)Steel



Coaxial Cable made with USA machine
PE foamed Injection

Direct Burial Coaxial cable:
Jelly filled between Al foil and Jacket

Packing:

- 1) 100m/bulk packing
- 2) 100m/spool (paper/plastic)
- 3) 305m/1000ft wooden spool
- 4) 1000ft/ Box in carton
- 5) Pull box



CMX/CM/CMR RATE



Coaxial Cable



Coaxial Cable

RG-58



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
19/0.18mm TC	2.95mm Solid PE	Braid: TC, 95%	4.95mm General PVC Flame retardant	$50 \pm 3\Omega$	101pF/m	66%	100	4.4
							200	6.5
							300	8.6
							500	11.1
							800	15.5
							1000	17.4

RG-59



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
20AWG 0.81mm CCS	3.66mm Foam PE	Foil: Al (bonded) Braid: 60% Al	6.10mm General PVC	$75 \pm 3\Omega$	16.3pF/ft 53pF/m	85%	83	2.45
							250	4.1
							300	4.45
							500	5.7
							865	7.52
							1000	8.12

RG-59B/U



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
22AWG 0.643mm Bare Copper	3.71mm Solid PE	Braid: 90-95% Copper	6.10mm General PVC Flame retardant	$75 \pm 3\Omega$	101pF/m	67%	100	3.65
							200	5.20
							300	6.85
							500	8.35
							800	11.0
							1000	11.74

RG-6



RG 660



RG 690

Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	6.91mm 0.272inches General PVC Flame retardant	$75 \pm 3\Omega$	CCS: $32\Omega/1000ft$ Solid Copper: $6.5\Omega/1000ft$	85%	1	0.50
							50	1.60
							200	3.00
							700	6.00
							1000	7.50
							1450	9.30
							1800	10.50
							2200	11.70
							2250	11.80

CMX/CM/CMR RATE

Coaxial Cable



Intertek

RG-6 Direct Burial



Conductor	Dielectric		Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	6.91mm 0.272inches PE JACKET with jelly	75±3Ω	CCS: 32Ω/1000ft Solid Copper: 6.5Ω /1000ft	85%	1 50 200 700 1000 1450 1800 2200 2250	0.50 1.60 3.00 6.00 7.50 9.30 10.50 11.70 11.80

RG-6 tri-shield



RG-6 tri-shield w/messenger



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 77% Al or Copper	7.06mm 0.278inches General PVC Flame retardant	75±3Ω	CCS: 32Ω/1000ft Solid Copper: 6.5Ω /1000ft	85%	1 50 200 700 1000 1450 1800 2200 2250	0.50 1.60 3.00 6.00 7.50 9.30 10.50 11.70 11.80

RG-6 Quad shield



RG-6 Quad Shield w/messenger



Conductor	Dielectric		Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 40% or 60% Al or Copper	7.62mm 0.30inches General PVC Flame retardant	75±3Ω	CCS: 32Ω/1000ft Solid Copper: 6.5Ω /1000ft	85%	1 50 200 700 1000 1450 1800 2200 2250	0.50 1.60 3.00 6.00 7.50 9.30 10.50 11.70 11.80

Coaxial Cable

CMX/CM/CMR RATE

Coaxial Cable



Intertek

RG-6

with ground wire(CCS 17AWG)
or with Messenger



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	6.91mm 0.272inches General PVC Flame retardant	$75 \pm 3\Omega$	CCS: $32\Omega/1000ft$ Solid Copper: $6.5\Omega/1000ft$	85%	1	0.50
							50	1.60
							200	3.00
							700	6.00
							1000	7.50
							1450	9.30
							1800	10.50
							2200	11.70
2250	11.80							

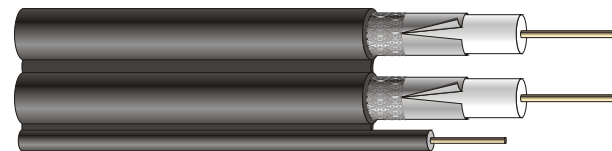
Dual RG-6



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	6.91mm 0.272inches General PVC Flame retardant	$75 \pm 3\Omega$	CCS: $32\Omega/1000ft$ Solid Copper: $6.5\Omega/1000ft$	85%	1	0.50
							50	1.60
							200	3.00
							700	6.00
							1000	7.50
							1450	9.30
							1800	10.50
							2200	11.70
2250	11.80							

Dual RG-6

with ground wire(17AWG)



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	6.91mm 0.272inches General PVC Flame retardant	$75 \pm 3\Omega$	CCS: $32\Omega/1000ft$ Solid Copper: $6.5\Omega/1000ft$	85%	1	0.50
							50	1.60
							200	3.00
							700	6.00
							1000	7.50
							1450	9.30
							1800	10.50
							2200	11.70
2250	11.80							

Coaxial Cable

CMX/CM/CMR RATE

Coaxial Cable

RG-6

with Telephone cable or UTP CAT 5E



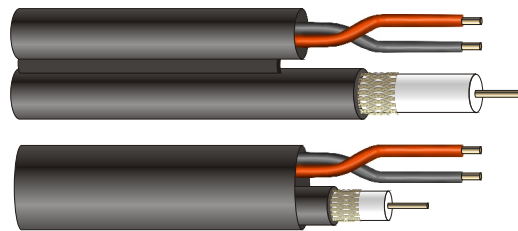
Intertek



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
18AWG 1.016mm 0.040inches CCS or Bare Copper	4.57mm 0.180inches Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	6.91mm 0.272inches General PVC Flame retardant	$75 \pm 3\Omega$	CCS: $32\Omega/1000ft$ Solid Copper: $6.5\Omega/1000ft$	85%	1 50 200 700 1000 1450 1800 2200 2250	0.50 1.60 3.00 6.00 7.50 9.30 10.50 11.70 11.80

Siamese Cable

RG-59 with Fig 8
2 cores x 18AWG



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
22AWG 0.643mm Bare Copper	3.71mm Solid PE	Braid: 90-95% Copper	6.10mm General PVC Flame retardant	$75 \pm 3\Omega$	101pF/m	67%	100 200 300 500 800 1000	3.65 5.20 6.85 8.35 11.0 11.74

RG- 11



RG- 11 with Mess.



RG- 11 Tri-shield



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Center Conductor DC Resistance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
14AWG 1.63mm CCS or Bare Copper	7.11mm Foam PE	Foil: Al (bonded) Braid: 60% or 90% Al or Copper	10.03mm General PVC Flame retardant	$75 \pm 3\Omega$	CCS: $11\Omega/1000ft$ Solid Copper: $6.5\Omega/1000ft$	85%	1 50 200 400 1000 1450 1800 2200	0.20 1.00 1.90 2.80 5.10 6.80 7.80 8.60

Coaxial Cable



CMX/CM/CMR RATE RG-213



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
7/0.752MM Bare Copper	7.25mm Solid PE	Braid: 90-95% Copper	10.3mm General PVC Flame retardant	$50 \pm 3\Omega$	97pF/m	66%	100	2.2
							300	3.35
							500	4.00
							800	6.40
							1000	7.10

500



Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
2.78MM CCA or Bare Copper	11.50mm Foamed PE	Braid: Al Tube	14.70mm PE	$75 \pm 3\Omega$	50pF/m	88%	100	2.42
							200	3.48
							300	4.32
							500	5.69
							850	7.61
1000	8.34							

540

Conductor	Dielectric	Shields	Cable dimensions, Jacket	Nominal Impedance	Nominal Capacitance	Nominal Vel./ Prop.	Freq. (Mhz)	Attenuation (dB/100ft)
3.15MM CCA or Bare Copper	13.03mm Foamed PE	Braid: Al tube	15.30mm PE	$75 \pm 3\Omega$	50pF/m	88%	100	2.09
							200	3.04
							300	3.71
							500	4.89
							850	6.51
1000	7.12							

USA Made Machine

