CO-AXIAL CABLES

Hills Cab
Electric Horizon

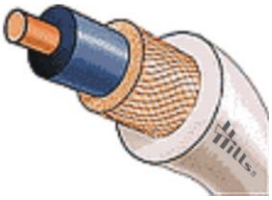
true picture
true sound

An ISO 9001:2000 Certified Co.

a german innovation

Meets additional requirements of international standards

IS:694 · RTL CETL · UKAS QUALITY MANAGEMENT · ASHCO COPPER PURITY · FIA TAC · MGMT. SYS. RvA C 458



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Coaxial cable is the kind of copper cable used by cable TV companies between the community antenna and user homes and businesses. Coaxial cable is sometimes used by telephone companies from their central office to the telephone poles near users. It is also widely installed for use in business and corporation Ethernet and other types of local area network.

Coaxial cable is called "coaxial" because it includes one physical channel that carries the signal surrounded (after a layer of insulation) by another concentric physical channel, both running along the same axis. The outer channel serves as a ground. Many of these cables or pairs of coaxial tubes can be placed in a single outer sheathing and, with repeaters, can carry information for a great distance.

Coaxial cable was invented in 1929 and first used commercially in 1941. AT&T established its first cross-continental coaxial transmission system in 1940. Depending on the carrier technology used and other factors, twisted pair copper wire and optical fiber are alternatives to coaxial cable.

SALIENT FEATURES

- Low attenuation values
- Minimum structural return loss
- Low loss in signal quality
- High band width
- Moisture proof
- Excellent adhesion

Construction Parameters	Unit	RG 59 F	RG 6 F	RG 11 F
Inner Conductor		Solid Bare Copper	Solid Bare Copper	Solid Bare Copper
Nom. Dia.	mm	0.8	1.02	1.63
Dielectric		Foam PE	Foam PE	Foam PE
Nom. Dia.	mm	3.55	4.57	7.11
Outer Conductor				
1st Shield		Bonded Al Tape	Bonded Al Tape	Bonded Al Tape
2nd Shield		ATC Braid	ATC Braid	ATC Braid
Min. Coverage	%	60	60	60
Jacket		PVC (Black)	PVC (Black)	PVC (Black)
Nom. Dia.	mm	6.2	7.2	10.5
Bending radius (Min.)	mm	65	65	75

Electrical Parameters	Unit	RG 59 F	RG 6 F	RG 11 F
Inner Conductor Max. Resi. at 20°C	Ohm / 100 mtrs.	3.55	2.13	0.84
Nominal Capacitance	pf/mtr.	53	53	53
Characteristics Impedance	Ohm	75	75	75
Nominal Velocity Ratio	%	85	85	85

Attenuation dB/100 Mtrs. (20°C)	Frequency	RG 59 F	RG 6 F	RG 11 F
211	MHz	12.47	9.50	6.23
250	MHz	13.45	10.50	6.72
300	MHz	14.60	11.50	7.38
350	MHz	15.75	12.45	7.94
400	MHz	16.73	13.30	8.53
450	MHz	17.72	14.35	9.02
500	MHz	18.70	14.95	9.51
550	MHz	19.52	15.70	9.97
600	MHz	20.34	16.45	10.43
750	MHz	22.87	18.35	11.97
865	MHz	24.67	19.95	13.05
1000	MHz	26.64	21.45	14.27

All figures are approximate presentation and may show variation under different conditions.

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