

Polycab, Jelly flooded Co-axial cable



Polycab Co-axial cable for Cable TV network is manufactured at our ultra-modern plant at Daman. The stringent quality control measure coupled with company's R&D efforts ensure production of co-axial cables that are technologically superior and provide an ideal combination of electrical cables the preferred choice for a variety of application in CATV network.

The centre conductor is made of solid electrical grade 99.97% pure copper to ensure better signal transmission. The conductor is insulated with nitrogen gas, which is superior and environment friendly as compared to chemical foam. The double screen of special composite type bonded aluminium foil and special grade aluminium alloy braiding of 60% coverage ensures low loss in signal quality, additional mechanical strength, and resistance to oxide formation in tropical whether conditions. The specially in-house formulated PVC compound used in jacket is UV and abrasion resistant.

Polycab co-axial cables are truly tested for all parameters by computerised analyser. Co-axial cables with steel wire armouring can also be supplied for underground application on demand.

Conductor: Electrical grade 99.97% pure solid bare copper conductor or solid copper clad steel conductor to ensure better signal transmission.

Insulation: Superior quality high density polyethylene foam insulated over conductor

Screen: Bonded Aluminium foil

Shielding: Aluminium alloy wire braiding with high tensile strength

Flooding: Flooded with jelly

Sheath: In-house developed thermoplastic jacketing for UV & abrasion resistant



[Polycab Co-axial cable – CATV Application](#)

CATV Application



Application

Polycab Co-axial cables are technologically superior and provide a smooth high frequency signal transmission to CATV network. Polycab Coaxial cables are suitable to use in external as well as in internal installation for low power video signal and broad band signals.

Operation Temperature

Max.: 70° C

Construction

- RG-59 F/RG-6 F/RG-11 F: Solid bare copper, RG-6 CCS/RG-11 CCS: solid copper clad steel
- Insulated with foam HDPE (high density polyethylene)
- Inner shielded by Bonded Aluminium foil
- Braided with aluminium alloy wire.
- Flooded with jelly
- Sheathed with Flame retardant PVC in Black colour.

Feature & Advantages

- ✓ Minimum loss in signal quality
- ✓ Higher bandwidth
- ✓ Low attenuation value
- ✓ Minimum structural return loss (SRL)
- ✓ Moisture proof

Approval



Bending Radius

20 x Overall diameter

Standard & References

ANSI/SCTE 74 2011

OUR ACCREDITATION



CATV Application

Product basic code	Co-axial cable	Dia. over dielectric mm	Overall diameter mm
RGPB05CPUAY1001CRG59H001S	RG-59 F	3.55	5.7
RGPB05CPUAY1001CRG06H001S	RG-6 F	4.57	6.6
RGPB05CPUAY1001CRG11H001S	RG-11 F	7.11	9.8
RGPB05SPUAY1001CRG11H001S	RG-11 CCS	7.11	9.8
RGPB05SPUAY1001CRG06H001S	RG-6 CCS	4.57	6.8

Electrical characteristics

Parameter	RG-59 F	RG-6 F	RG-11 F	RG-11 CCS	RG-6 CCS
Nominal impedance (Ω)	75±3	75±3	75±3	75±3	75±3
Capacitance (pf/m)	53±3	53±3	53±3	53±3	53±3
Maximum DC conductor resistance at 20°C (Ω/km)	35.5	21.4	8.5	45 (Conductivity-21%)	112 (Conductivity-21%)
Velocity of propagation (%)	82	82	82	82	82
Attenuation at 20°C (dB/100 m) at					
5 MHz	2.82	1.95	1.25	1.25	1.95
55 MHz	6.73	5.2	3.15	3.15	5.2
211 MHz	12.47	9.5	3.87	3.87	9.5
250 MHz	13.45	10.5	5.74	5.74	10.5
300 MHz	14.6	11.5	6.23	6.23	11.5
350 MHz	15.75	12.4	6.72	6.72	12.4
400 MHz	16.73	13.3	7.38	7.38	13.3
450 MHz	17.72	14.35	7.94	7.94	14.35
550 MHz	19.52	15.7	8.53	8.53	15.7
600 MHz	22.87	16.45	9.02	9.02	16.45
750 MHz	24.67	18.35	9.51	9.51	18.35
865 MHz	26.64	19.95	9.97	9.97	19.95
1000 MHz	21.45	21.45	10.43	10.43	21.45

Note:

All above products are available with armouring on demand

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