



COAXIAL CABLE

TDS Doc.No:PIL/TE/250425/005904

DESIGN CODE : RGPB05CPUAY1001CRG59

Particulars	RG59F Unarmoured Co-axial Cable
Name of Manufacturer	Polycab India Limited
Type of cable	Co-axial Cable Unarmoured
Size	RG-59 F
Applicable Standard	ANSI/SCTE 74-2011
Conductor	
a) Material	Solid bare Copper
b) Conductor Diameter (mm)	0.80 ± 0.005
Insulation	
a) Material	Foam HDPE
b) Dia. Over Dielectric (mm)	3.55
c) Insulation Thickness (mm)	1.375
Inner Shield	
a) Material	Alum. Foil
b) Diameter Over Inner Shield (mm)	3.75
c) Width of Al Foil (mm)	0.052
Outer Shield	
a) Material	Aluminium Alloy
b) Diameter of Wire (mm)	0.12
c) Min. Braiding Coverage (%)	60%
d) Dia. Over Outer Shield (mm)	4.23
e) Flooding Compound	Jelly
Outer Sheath	
a) Material	PVC
b) Min. Outer Sheath thickness (mm)	0.7
c) Diameter over Outer Sheath (mm)	5.70 ± 1.0
d) Colour of Sheath	Black

Electrical Parameters

a) Nominal Impedance (Ohms)	75 ± 3
b) Capacitance (pf / mtr)	53 ± 3
c) Max. Conductor Resistance @ 20°C (Ohm/km)	35.5
d) Attenuation @20 Deg C (dB/100 M)	
5 MHz	2.82
55 MHz	6.73
211 MHz	12.47
250 MHz	13.45
300 MHz	14.6
350 MHz	15.75
400 MHz	16.73
450 MHz	17.72
550 MHz	19.52
750 MHz	22.87
865 MHz	24.67
1000 MHz	26.64
Packing Length (M)	1000/2000 Meter ± 5%