

# Synergy Telecom P Ltd.

## RG 58 Coaxial Cable :-



S.No	TEST	UNIT	Specified
1	Type of cable		Coaxial Cable
2	No of Cores		1
3	<b>Conductor :-</b>		
A	Material		Tinned Copper
B	No of strands		1
C	Diameter of Each Strands	MM	0.71 ± 0.015 MM
D	Nominal Cross Section Area	Sqmm	0.395
4	<b>Insulation :-</b>		
A	Material		Polythelin
B	Type		Polythelin
C	Insulation Thickness	MM	1.00 ± 0.05
D	Core Diameter	MM	2.85 ± 0.2
5	<b>SHIELDED :-</b>		
A	Braiding Copper		Alloy Copper
B	Brading Coverage	%	70 ± 5 %
6	<b>Outer Sheath :-</b>		

A	Material		PVC AS PER IS 5831/1984
B	Colour of Outer Sheath		Black
C	Overall Diameter	MM	4.70 ± 0.05
7	<b>Electrical Data:-----</b>		
A	Elongation of PVC	%	150 (min)
B	Tensile strength of PVC	N/Sqmm	12.5 (min)
C	Conductor Resistance at 20°C	Ω/KM	< 43.57
D	IR Constant at 27°C	M Ω/KM	>1000
E	Volume Resistivity at 27°C	Ω/cm	> 1 x 10 <sup>14</sup>
F	Impedance	Ω	50 ± 3
G	Capacitance	Pf/m	101 ± 5
H	<b>Frequency :-----</b>		<b>DB/100m</b>
	100	MHz	16.2
	200	MHz	22.4
	400	MHz	35.1
	700	MHz	46.3
	900	MHz	57.4
I	Shrinkage Test	%	4 % (max)
J	Flammability Test	MM	Uncharred Portion Should be 50 mm (Min)
K	Heat Shock Test	°C	Should be No cracks at 150°C for 1 hr.
L	High Voltage Test	KV	Should withstands with 3Kv (rms) voltage