

RG Type Low Loss Coaxial Cables

RG 58 LLA

Construction

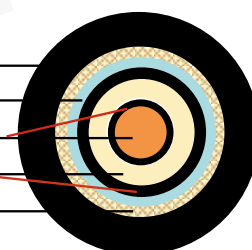
Inner conductor	Plain copper + black PE	1.00 mm
Dielectric	Gas injected foam PE + Carbon black PE	$\Phi 2.95 \pm 0.10$ mm
Outer conductor (shield 1)	Aluminium + polyester + Aluminium tape	
Shield coverage		100%
Outer conductor (shield 2)	Tinned copper	64 x 0.15 mm
Shield coverage		73%
Sheath	PVC or LSZH	$\Phi 5.00 \pm 0.10$ mm

Electrical & Mechanical Characteristics

Impedance	50 \pm 3 Ohm
Nominal capacitance	80 pF/m
Velocity of propagation	80%
Insulation resistance	>5000 Mohm.Km
Inner conductor resistance	22.5 Ohm/Km
Outer conductor resistance	20.5 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	17.8 Kg/Km
Cable weight (approx.)	35.4 Kg/Km
Screening effectiveness	>80 dB



PVC or LSZH sheath
 AL + polyester + AL tape
 Plain copper+black PE inner conductor
 Gas injected foam PE+black PE dielectric
 Tinned copper outer conductor



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	7.3	2.23
100	9.8	2.99
400	19.7	6.01
600	24.9	7.59
860	30.1	9.18
1000	32.7	9.97
1750	45.8	13.96
2400	55.8	17.01

Return Loss

30-300 MHz	>30dB
300-600 MHz	>26dB
600-900 MHz	>20dB