



CONSTRUCTION	
Inner Conductor:	
Bare Copper	2.74 (+/-0.01)
Elongation at Break	Min. 25%
Tensile Strength	Min. 150N / mm2
Adherence to Dielectric	Min. 67N / 50mm
Dielectric:	
Gas Injected Fomed Polyethylene	7.24
Dielectric Constant of Base	PE
Dielectric Strength	1 of PE 18 kV/mm
Shrinkage	Max 4% After 4 Hours at 115 °C
PE Oxidative Induction Time	Min. 30 minutes / ASTM D 4565
PE Oxidative Induction Time	Min. 70% After 14 days / 90°C
Screen (1):	
Tape Aluminium/Polyester/ Bonding Layer	7.49 (+/-0.23)
Bonded to Dielectric – Ovality	Max. 0.33
Tape Thickness	0.01 Al / 0.012 Pet / 0.01Al / 0.025 Bonding Layer
Overlapping	Min. 18%
Screen (2):	
Bare Copper Braid	7.9 (+/-0.15)
Braid Construction	24 x 7 x (0.16+0.005/-0.005) Min. 95%
Elongation at Break for Every Wire	Min. 25%
Tensile Strength for Every Wire	150N / mm2
Sheath:	
PVC – NO BAD ODORS	10.30 (+/-0.2)
Sheath Color Black RAL 9005	Thickness Min. 0.93mm
Jacket Thickness Excentricity	Max. 43%
Tensile Strength	Min. 16Mpa (UL2556)
Elongation at Break	Min. 600% (UL2556 & ASTM D573)
Spark Test	Min. 2.5kVrms
Jacket Shrinkage (ANSI/SCTE 88/2003)	Max. 10 mm / Sample 150 mm

Features:

- Bare Copper Conductor
- Dielectric Gas Injected Foamed Polythlene (FPC)
- Bonded Aluminium Sheath
- 160 Bare Copper Braid
- Polyvinyl Chloride (PVC)
- Packaging 305 Meters

COAXIAL CABLE

RG-8U Enhanced Coaxial Cable

Part # : 5108

CHARACTERISTICS

Cable Environmental:		
Working Temperature	-76 °C + 75 °C	
Abrasion Resistance	1000 Time according to The Standard Bellcore GR-1398 Core	
Cold Bending Radius	-76 °C	
Cold Impact	-40 °C	
Electrical Characteristics – DC and Low Frequency - @ 20 °C:		
Inner Conductor Resistance	Max. 3.5 Ω/km	
Outer Conductor Resistance	Max. 6.5 Ω/km	
DC Loop Resistance	Max. 10 Ω/km	
Max. Loop Current	Amp. 8 a 20 °C – 6 a 40 °C	
Dielectric Strength	2 kV D.C or 1.5 kV A.C for 1 min.	
Insulation Resistance	Mohm x km > 10000 Mohm x km	
Mutual Capacitance	80 ± 2 nF/km	
Voltage Test of Sheath	2.5 kV A.C. or 3.75 kV D.C. for 1min.	
Electrical Characteristics – High Frequency - @ 20 °C:		
Velocity of Propagation	82%	
Characteristics Impedance	Ω 50 +/-2	
Nominal Delay	4.0 nS/m Max.	
Longitudinal Attenuation	5 MHz	3.45 db/100m Max.
	150 MHz	5.4 db/100m Max.
	300 MHz	7.7 db/100m Max.
	450 MHz	9.46 db/100m Max.
	500 MHz	10.02 db/100m Max.
	900 MHz	14.45 db/100m Max.
	1500 MHz	19.15 db/100m Max.
Return Loss	5 MHz – 1000 MHz	Min. 20db
	1000 MHz – 3000 MHz	Min. 15db

Design:

