



CONSTRUCTION	
Inner Conductor:	
Copper Covered Steel Wire min. 21%	1.30 (+/-0.01)
Elongation at Break	Min. 1%
Tensile Strength	Min. 500N / mm2
Adherence to Dielectric	Min. 45N
Dielectric:	
Gas Injected Fomed Polyethylene	5.72
Dielectric Constant of Base	PE 2.25
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	5.90 (+/-0.13)
Bonded to Dielectric – Ovality	Max. 0.33
Tape Thickness	0.009 Al / 0.012 Pet / 0.025 Bonding Layer
Overlapping	Min. 18%
Screen (2):	
Aluminium Alloy Braid	6.55 (+/-0.15)
Type	5154 or (5056, 5154, 5954)
Braid Construction	16 x 9 x (0.16+0.002/-0.002) Min 95%
Elongation at Break for Every Wire	Min. 3%
Tensile Strength for Every Wire	220N / mm2
Anti Corrosion Protection:	
Material	Protecting Jelly Against Humidity between the Screen and the Jacket
Sheath:	
PVC – NO BAD ODORS	8.10 (+/-0.2)
Sheath Color Black RAL 9005	Thickness Minimum 0.7mm
Jacket Thickness Excentricity	Max. 43%
Tensile Strength	Min. 13.8Mpa (UL2556)
Tensile Strength	After 168 H at 100 °C ≥75% (UL2556)
Elongation at Break	Min. 250% (UL2556 & ASTM D573)
Elongation at Break	After 168 H at 100 °C ≥50% (UL2556 & ASTM D573)
Spark Test	Min. 2.5kVrms
Jacket Shrinkage (ANSI/SCTE 88/2003)	Max. 10 mm / Sample 150 mm

Features:

- Jelly Filled Moisture Free Technology
- Copper Covered Steel (CCS) Conductor
- Dielectric Gas Injected Foamed Polythlene (FPC)
- Bonded Aluminium Sheath
- Aluminium Alloy Braid
- Polyvinyl Chloride (PVC)
- Packaging 305 Meters

CHARACTERISTICS		
Cable Environmental:		
Working Temperature	-40 °C + 75 °C	
Abrasion Resistance	1000 Time according to The Standard Bellcore GR-1398 Core	
Cold Bending Radius	-40 °C	
Cold Impact	-15 °C	
Electrical Characteristics – DC and Low Frequency - @ 20 °C:		
Inner Conductor Resistance	Max. 61 Ω/km	
Outer Conductor Resistance	Max. 22 Ω/km	
DC Loop Resistance	Max. 83 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	53 ± 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 75 +/-3	
Nominal Delay	4.0 nS/m Max.	
Longitudinal Attenuation	5 MHz	1.6 db/100m Max.
	55 MHz	4.4 db/100m Max.
	211 MHz	7.74 db/100m Max.
	250 MHz	8.4 db/100m Max.
	270 MHz	8.78 db/100m Max.
	300 MHz	9.25 db/100m Max.
	330 MHz	9.72 db/100m Max.
	350 MHz	10.01 db/100m Max.
	400 MHz	10.73 db/100m Max.
	450 MHz	11.35 db/100m Max.
	500 MHz	12.04 db/100m Max.
	550 MHz	12.63 db/100m Max.
600 MHz	13.28 db/100m Max.	
750 MHz	14.99 db/100m Max.	
870 MHz	16.28 db/100m Max.	
1000 MHz	17.45 db/100m Max.	
Return Loss	5 MHz – 1000 MHz	Min. 20db

Design:

