

### 1) Description

A solid aluminum tube is precision, gas foam dielectric core, the core contains a fully bonded copper clad center conductor, PE jacket, with messenger.

Applications: multiple dwelling units (MDU) and feeder applications,

### 2) Physical Dimensions

Center Conductor:-----2.77±0.01mm Copper Clad Aluminum

Dielectric:-----11.43±0.10mm Foam PE

Shield thickness:-----0.61±0.005mm AL Tube

Jacket:-----14.22±0.10mm PE

Messenger:-----2.77±0.01mm Steel

Jacket:-----4.50±0.10mm PE

### 3) Mechanical Characteristics

Operating Temperature Range:----- -20°C To +60°C

Max. Pulling Tension: ----- 135 kg

Min. Bend Radius :----- 30 cm

Mini. Breaking Strength of Messenger:--- 815 kg

### 5) Electrical Characteristics

Impedance:-----75±3 Ω

Capacitance:-----50±3 pF/m

Velocity of Propagation:---87%

Inner Conductor:-----4.43 Ω/km

Outer Conductor:-----1.21 Ω/km

Loop:-----5.64 Ω/km



### 6) Attenuation

Attenuation		[ @68°F . (20°C) ]	
Frequency (MHz)	Max. (dB/100 ft)	Frequency (MHz)	Max. (dB/100 ft)
5	0.16	400	1.53
30	0.38	450	1.63
55	0.54	500	1.73
83	0.66	550	1.82
211	1.09	600	1.91
250	1.20	750	2.16
300	1.31	865	2.34
350	1.43	1000	2.52

### 7) Approval:

