

## **100 SERIES LOW LOSS COAXIAL CABLE**

ATS-100A-PA#6009



### > CONSTRUCTION SPECIFICATIONS

#### > MECHANICAL SPECIFICATIONS

Inner Conductor Conductor Dia. Min.Break Strength

Insulation
Insulation Dia.
Color
Centricity
Adhesion

Shielding Foil overlap Dia.

Outer Conductor Dia. Coverage

> Outer Dia Color

Solid CCS **0.46** +/-0.02mm 128 N

Solid P.E. **1.52** +/-0.10mm Neutral ≥90% 10 to 100N @ 25mm

AL/P-Foil (Bonded)

**1.65** +/-0.10mm TC Wire Braid **2.11** +/-0.10mm **94** +/-3%

PVC **2.79** +/-0.15mm Black Min.Bending Radius:

Installation 6.4 mm
Repeated 25.4 mm
Max.Pulling Tension 78

**Rated Temperature** 

Installation/operating temperature -40~+85 ® Storage temperature -70~+85 ®

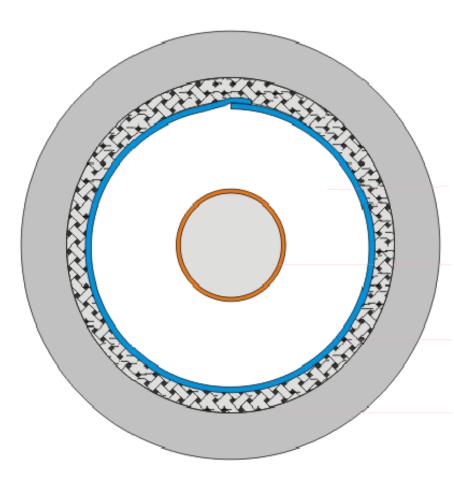
#### > ELECTRICAL SPECIFICATIONS

Characteristic Impedance	50 ±2 ohm	Attenuation (at 20 2)		
,		[MHz	Power kw]	[dB/100ft]
Capacitance	101 pF/m	30	0.230	3.90
Velocity ratio	66 %	5	0.180	5.10
DCR: Inner Conductor	266.0 ohm/km	15	0.100	8.90
DCR: Outer Conductor	31.2 ohm/km	22	0.083	10.90
Voltage withstand	2000 V RMS	45	0.057	15.80
Jacket Spark	500 v rms	90	0.039	22.80
Insulation resistance	> 10,000 MΩ·km	150	0 0.029	30.10
Peak Power	0.6 kw	180	0 0.027	33.20
Shielding Effectiveness	> 90 dB	200	0 0.025	35.20
		250	0 0.022	39.80
VSWR	30-1000 MHz <1.15	580	0.013	64.10
	1001-2500 MHz <1.20	800	0.010	77.30
	2501-5800 MHz <1.25			



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Insulation
Inner Conductor
Outer Conductor
Jacket