

# SAT 6DS

## 75 Ohm Coaxial Cable

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### PRODUCT DESCRIPTION:

**BONDED LAMINATED ALUMINUM TAPE, ALUMINUM BRAID, PVC JACKET**

#### CENTER CONDUCTOR:

18 AWG COPPER COVERED STEEL  
 NOMINAL DIAMETER: 0.0403" (1.02 mm)

#### DIELECTRIC:

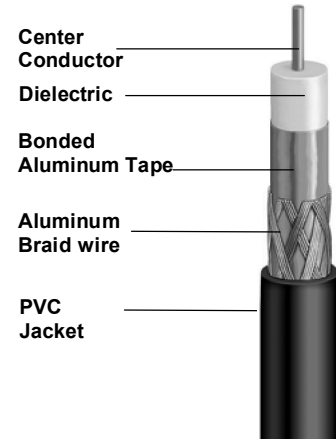
GAS EXPANDED POLYETHYLENE  
 NOMINAL DIAMETER OVER DIELECTRIC: 0.180" (4.57 mm)

#### SHIELD:

1<sup>ST</sup> SHIELD: LAMINATED ALUMINUM TAPE  
 BONDED TO THE DIELECTRIC – 100% COVERAGE  
 NOMINAL DIAMETER OVER TAPE: 0.186" (4.72 mm)  
2<sup>ND</sup> SHIELD: ALUMINUM BRAID WIRE 60% (Typ.) COVERAGE

#### JACKET:

PVC  
 NOMINAL DIAMETER OVER JACKET: 0.272" (6.91 mm)  
 NOMINAL JACKET THICKNESS: 0.030" (0.76 mm)



Cable Weight (Lbs.)/1000': 25 lbs. / 38 kg/km

### ELECTRICAL PROPERTIES:

IMPEDANCE: 75.0 +/- 3.0 Ohms  
 VELOCITY OF PROPAGATION: 85.0% NOMINAL  
 STRUCTURAL RETURN LOSS: 5 MHz to 1000 MHz ≥ 20 dB      1000 to 3000 MHz ≥ 15 dB  
 NOMINAL DC RESISTANCE - Ohms/kft (km): Center Conductor: 30 (104) Outer Conductor: 10 (33) Loop: 40  
 (137) ATTENUATION: @ 68°F (20°C)

Frequency	dB/100 feet Nominal	dB/100 meters Nominal
5 MHz	0.58	1.90
55 MHz	1.60	5.25
83 MHz	1.95	6.40
187 MHz	2.85	9.35
211 MHz	3.05	10.01
250 MHz	3.30	10.82
300 MHz	3.55	11.64
350 MHz	3.85	12.63
400 MHz	4.15	13.61
450 MHz	4.40	14.44
500 MHz	4.66	15.29
550 MHz	4.90	16.08
600 MHz	5.10	16.73
750 MHz	5.65	18.84
900 MHz	5.90	19.40
950 MHz	6.10	19.90
1000 MHz	6.20	20.50
1200 MHz	6.90	22.60
1450 MHz	7.60	25.00
1800 MHz	8.50	28.00
2200 MHz	9.50	31.30
2400 MHz	10.00	32.80
2800 MHz	10.90	35.70
3000 MHz	11.30	37.10