

# SAT660BV

## 75 Ohm Coaxial Cable

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### PRODUCT DESCRIPTION:

**BONDED FOIL, 60% BRAID, PVC JACKET**

#### CENTER CONDUCTOR:

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

#### DIELECTRIC:

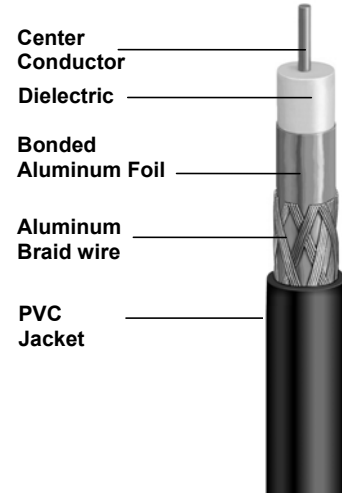
GAS EXPANDED POLYETHYLENE  
 NOMINAL DIAMETER OVER DIELECTRIC: 0.180" (4.57 mm)

#### SHIELD:

**1<sup>st</sup> SHIELD:** ALUMINUM-POLYPROPYLENE-ALUMINUM  
 LAMINATED TAPE WITH OVERLAP BONDED TO THE  
 DIELECTRIC  
 NOMINAL DIAMETER OVER TAPE: 0.187" (4.75 mm)  
**2<sup>nd</sup> SHIELD:** 34 AWG ALUMINUM BRAID WIRE  
 60% COVERAGE

#### JACKET:

PVC JACKET  
 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/km): Center Conductor: 100.1      Outer Conductor: 34.4  
 ATTENUATION: @ 68°F (20°C)

| Frequency | dB/100 feet Maximum | dB/100 meters Maximum |
|-----------|---------------------|-----------------------|
| 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                | 18.54                 |
| 865 MHz   | 6.10                | 20.01                 |
| 1000 MHz  | 6.55                | 21.49                 |
| 1200 MHz  | 7.17                | 23.52                 |
| 1450 MHz  | 7.87                | 25.82                 |
| 1800 MHz  | 8.77                | 28.77                 |
| 2200 MHz  | 9.68                | 31.75                 |
| 2400 MHz  | 10.10               | 33.14                 |
| 2800 MHz  | 10.90               | 35.76                 |
| 3000 MHz  | 11.28               | 37.01                 |

*Drawing not to scale  
 Specification subject to change  
 Revision: 07/24/06*