

# SYNERGY TELECOM PVT. LTD

## SAT1160BV APD 3 GHZ 75 Ohm Coaxial Cable

### PRODUCT DESCRIPTION:

BONDED FOIL, 60% BRAID, PVC JACKET

#### CENTER CONDUCTOR:

14 AWG COPPER COVERED STEEL  
NOMINAL DIAMETER: 0.064" (1.63 mm)

#### DIELECTRIC:

GAS EXPANDED POLYETHYLENE  
NOMINAL DIAMETER OVER DIELECTRIC: 0.280" (7.11 mm)

#### SHIELD:

1<sup>ST</sup> SHIELD: ALUMINUM-POLYPROPYLENE-ALUMINUM  
LAMINATED TAPE WITH OVERLAP BONDED TO THE  
DIELECTRIC  
NOMINAL DIAMETER OVER TAPE: 0.287" (7.29 mm)

2<sup>ND</sup> SHIELD: 34 AWG ALUMINUM BRAID WIRE  
60% COVERAGE

#### JACKET:

PVC  
NOMINAL DIAMETER OVER JACKET: 0.395" (10.03 mm)  
NOMINAL JACKET THICKNESS: 0.042" (1.07 mm)

#### CORROSION RESISTANT TREATMENT:

AMORPHOUS POLYPROPYLENE FLOODING COMPOUND

Center Conductor

Dielectric

Bonded Aluminum  
Foil Shield

Aluminum  
Braided Shield

Flooding  
Compound

Jacket



Shipping Weight (Lbs.)/1000': 72 lbs. / 107 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: 8.5      Outer Conductor: 22.5

ATTENUATION: @ 68°F (20°C)

@ Frequency MHz	dB/100 feet Maximum	dB/100 meters Maximum
5 MHz	0.38	1.25
55 MHz	0.96	3.15
83 MHz	1.18	3.87
187 MHz	1.75	5.74
211 MHz	1.90	6.23
250 MHz	2.05	6.72
300 MHz	2.25	7.38
350 MHz	2.42	7.94
400 MHz	2.60	8.53
450 MHz	2.75	9.02
500 MHz	2.90	9.51
550 MHz	3.04	9.97
600 MHz	3.18	10.43
750 MHz	3.65	11.97
865 MHz	3.98	13.05
1000 MHz	4.35	14.27
1200 MHz	4.77	15.65
1450 MHz	5.30	17.39
1800 MHz	6.00	19.69
2200 MHz	6.75	22.14
2400 MHz	7.11	23.32
2800 MHz	7.78	25.53
3000 MHz	8.11	26.60

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