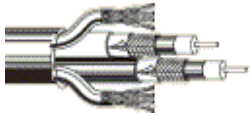


## 7876A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information  
please call

1-800-Belden1



### Description:

Composite - (2) Cat 5e 4-bonded-pair 24 AWG unshielded plus (2) Series 6 Coax with Duobond Plus® Bonded Tri-shield, polyolefin insulation on the pairs; Gas-injected FPE insulation on the coax, F-R PVC jackets, overall F-R PVC jacket.

### Usage (Overall)

Suitable Applications: HDTV

### Coax

#### Physical Characteristics

##### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
2	18	Solid	BC - Bare Copper	0.040

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	0.180

##### Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	% Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	AL - Aluminum	80.000
3		Tape	Bonded Aluminum Foil-Polyester Tape w/Shorting Fold	100.000

##### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.275

Outer Jacket Color Code Chart:

Number	Color
1	Black
2	White

### Applicable Specifications and Agency Compliance

#### Applicable Standards & Environmental Programs

Series Type: Series 6

### Electrical Characteristics

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)

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0.097

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**  
16.200

**Nominal Velocity of Propagation:**

**VP (%)**  
83.000

**Nominal Delay:**

**Delay (ns/ft)**  
1.200

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
6.400

**Nom. Inner Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
4.600

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	1000.000	20.000
1000.000	2250.000	15.000
2250.000	3000.000	10.000

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.500
55.000	1.400
211.000	2.600
500.000	4.100
750.000	5.100
862.000	5.500
1000.000	6.000
1450.000	7.800
1800.000	8.600
2250.000	9.800
3000.000	11.300

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.670
55.000	1.600
211.000	2.870
500.000	4.480
750.000	5.590
862.000	5.980
1000.000	6.540
1450.000	8.000
1800.000	8.800
2250.000	10.000
3000.000	11.900

**Max. Operating Voltage - UL:** 350 V RMS

**Shield Effectiveness:**

Start Frequency (MHz)	Stop Frequency (MHz)	Shield Effectiveness (dB)
5.000	50.000	105.000
50.000	1000.000	125.000

## 7876A Composite - Composite Data, Audio, Video, Security and Control Cable

### Twisted Pair

#### Physical Characteristics

##### Conductor

###### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
8	24	Solid	BC - Bare Copper	0.020

##### Insulation

###### Insulation Material:

Insulation Material Dia. (in.)
PO - Polyolefin 0.038

###### Twisted Pair Color Code Chart:

Number	Color
1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown

#### Individual Shield

##### Outer Jacket

###### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

###### Outer Jacket Color Code Chart:

Number	Color
1	Blue
2	Green

#### Overall Diameter

Overall Nominal Diameter: 0.200 in.

#### Electrical Characteristics

##### Nom. Mutual Capacitance:

Capacitance (pF/ft)
15.000

##### Nominal Velocity of Propagation:

VP (%)
70.000

##### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.380

##### Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Third party verified to TIA/EIA-568-B.2, Category 5e/

#### Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1.0	2.000	62.3	60	20.000
4.0	4.100	53.3	49	23.000
8.0	5.800	48.8	43	24.500
10.0	6.500	47.3	41	25.000
16.0	8.200	44.3	36	25.000
20.0	9.300	42.8	34	25.000
25.0	10.400	41.3	31	24.300
31.25	11.700	39.9	28	23.600

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62.5	17.000	35.4	19	21.500
100	22.000	32.3	11	20.100

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. PSELFEXT (dB)
1.0	100 ± 15%	60.8
4.0	100 ± 15%	48.7
8.0	100 ± 15%	42.7
10.0	100 ± 15%	40.8
16.0	100 ± 15%	36.7
20.0	100 ± 15%	34.7
25.0	100 ± 15%	32.8
31.25	100 ± 15%	30.9
62.5	100 ± 15%	24.8
100	100 ± 15%	20.8

### Physical Characteristics (Overall)

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 0.610 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 134 lbs/1000 ft.

Max. Recommended Pulling Tension: 262 lbs.

Min. Bend Radius/Minor Axis: 6.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Other Specification: NEMA WC-63.1, Category 5e

#### Flame Test

UL Flame Test: UL1666 Riser

CSA Flame Test: FT4

## 7876A Composite - Composite Data, Audio, Video, Security and Control Cable

### Plenum/Non-Plenum

Plenum (Y/N): No

### Notes (Overall)

**Notes:** Overall jacket sequentially marked. Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7876A N3U1000	1,000 FT	148.000 LB	GREEN, MIL	C	2 #18 COAX,8PR#24 PP FRPVC PVC
7876A N3U500	500 FT	77.000 LB	GREEN, MIL	C	2 #18 COAX,8PR#24 PP FRPVC PVC

**Notes:**

C = CRATE REEL PUT-UP.

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