

## 1277P Coax - Mini Hi-Res Component Video Cable

For more Information  
please call

1-800-Belden1



### General Description:

25 AWG solid .018" tinned copper conductors, FPFA insulation, Duobond® foil plus a tinned copper interlocked serve shield (95% coverage), PVDF inner jackets, PVC jacket.

### Usage (Overall)

Suitable Applications:

RGB Projectors, LCD Projectors, Video Distribution, Component Video, Graphic Displays, Special Effects Editing, Animation, Video Post Production, Home Theater, Offices, Boardrooms, Auditoriums, Teleconferencing, Theaters

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 3      | 25  | Solid     | TC - Tinned Copper | .018       |

Total Number of Conductors:

3

#### Insulation

Insulation Material:

| Insulation Material         | Dia. (in.) |
|-----------------------------|------------|
| FPFA - Foam Perfluoroalkoxy | 0.074      |

#### Inner Shield

Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type              | Inner Shield Material            | Coverage (%) |
|---------|-------------------------|-------------------|----------------------------------|--------------|
| 1       | Bonded Duofoil®         | Tape              | Aluminum Foil-Poly Tape-Aluminum | 100          |
| 2       |                         | Interlocked Serve | TC - Tinned Copper               | 95           |

#### Inner Jacket

Inner Jacket Material:

| Inner Jacket Material  | Nom. Dia. (in.) |
|------------------------|-----------------|
| PVDF - Fluorocopolymer | .111            |

Inner Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Red   |
| 2      | Green |
| 3      | Blue  |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter:

0.276 in.

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 38 lbs/1000 ft.

Max. Recommended Pulling Tension: 50 lbs.

Min. Bend Radius (Each Coax): 1.100 in.

Min. Bend Radius (Overall): 2.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/UL) Specification:

CMP

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|                                       |            |
|---------------------------------------|------------|
| CEC/C(UL) Specification:              | CMP        |
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU CE Mark:                           | No         |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MIL Order #39 (China RoHS):           | Yes        |

### Flame Test

|                |          |
|----------------|----------|
| UL Flame Test: | NFPA 262 |
|----------------|----------|

### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

### Plenum/Non-Plenum

|                    |       |
|--------------------|-------|
| Plenum (Y/N):      | Yes   |
| Non-Plenum Number: | 1277R |

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 75              |

### Nom. Inductance:

| Inductance (μH/ft) |
|--------------------|
| .087               |

### Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 16.8                |

### Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 81     |

### Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.26          |

### Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 34                       |

### Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5.4                      |

### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | 0.5                      |
| 5           | 1.2                      |
| 50          | 3.8                      |
| 100         | 5.2                      |
| 200         | 7.1                      |
| 400         | 10.0                     |
| 750         | 14.3                     |
| 1000        | 16.9                     |
| 2250        | 25.5                     |
| 3000        | 33.9                     |

### Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 300 V RMS |

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

| Voltage   |
|-----------|
| 300 V RMS |

## 1277P Coax - Mini Hi-Res Component Video Cable

### Minimum Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
|             |             | 5                 | 850              | 20           |

### Sweep Test

Sweep Testing: 5 - 850 MHz

### Misc. Information (Overall)

#### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc                 |
|---------------|----------|-------------|-------|-------|---------------------------|
| 1277P 0081000 | 1,000 FT | 41.000 LB   | GRAY  | C     | 3 #25 FPFA SH FLRST FLRST |
| 1277P 008500  | 500 FT   | 20.500 LB   | GRAY  | C     | 3 #25 FPFA SH FLRST FLRST |

#### Notes:

C = CRATE REEL PUT-UP.

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