

## 6788AV Composite - Audio and Video Composite Cable

**Picture  
Not Available**

For more Information  
please call

1-800-Belden1



## General Description:

Video Cable, Plenum-CMP, 6-25 AWG solid tinned copper, foam FEP insulation, Duobond®+95% tinned copper interlocked serve, Flamarrest® jacket, 2 pairs - 22 AWG stranded tinned copper, Flamarrest® insul., Beldfoil® shield, drain wire, Flamarrest® jacket, overall Flamarrest® jacket

## Usage (Overall)

## Suitable Applications:

Projection Video, Projectors, Classroom, Room-to-Room AV, RGB, VGA, SVGA, XGA, SXGA, USGA, HDTVm LCD, Plasma, Component Video, Video Mult., Composite Audio Video, Hybrid Component, Animation, Special Effects, RGB62TS, RGB6C/22-2P-PLN, High Resolution, HR + STP

## Coax

## Physical Characteristics

## Conductor

## AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 6      | 25  | Solid     | TC - Tinned Copper | 0.018      |

## 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       | Duobond®                | Tape              | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100            |
| 2       |                         | Interlocked Serve | TC - Tinned Copper                                | 95             |

## Inner Jacket

## Inner Jacket Material:

| Inner Jacket Trade Name | Inner Jacket Material                 | Nom. Dia. (in.) |
|-------------------------|---------------------------------------|-----------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride | 0.114           |

## Inner Jacket Color Code Chart:

| Number | Color  |
|--------|--------|
| 1      | Red    |
| 2      | Green  |
| 3      | Blue   |
| 4      | Yellow |
| 5      | Black  |
| 6      | White  |

## Mechanical Characteristics

## Min. Bend Radius (Install):

1.100 in.

## Electrical Characteristics

## Nom. Characteristic Impedance:

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

## Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| 0.087              |

## Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 17.000              |

## Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 80.000 |

## Nominal Delay:

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## Delay (ns/ft)

1.240

## Nom. Conductor DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

34.000

## Nom. Inner Shield DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

5.400

## Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000             | 850.000          | 20.000       |

## Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000       | 0.520                    |
| 5.000       | 1.170                    |
| 50.000      | 3.700                    |
| 100.000     | 4.900                    |
| 200.000     | 6.700                    |
| 400.000     | 9.500                    |
| 750.000     | 13.400                   |
| 900.000     | 15.000                   |
| 1000.000    | 15.800                   |
| 3000.000    | 31.200                   |

## Max. Operating Voltage - UL:

300 V RMS

## Twisted Pair

## Physical Characteristics

## Conductor

## AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2       | 22  | 7x30      | TC - Tinned Copper |

## Insulation

## Insulation Material:

| Insulation Trade Name | Insulation Material                   |
|-----------------------|---------------------------------------|
| Flamarrest®           | LS PVC - Low Smoke Polyvinyl Chloride |

## Twisted Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black and Red |
| 2      | Black and Red |

## Inner Shield

## Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

## Inner Shield Drain Wire AWG:

| AWG | Stranding | Conductor Material |
|-----|-----------|--------------------|
| 24  | Stranded  | TC - Tinned Copper |

## Inner Jacket

## Inner Jacket Material:

| Inner Jacket Trade Name | Inner Jacket Material                 | Nom. Dia. (in.) |
|-------------------------|---------------------------------------|-----------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride | 0.134           |

## Inner Jacket Color Code Chart:

| Number | Color  |
|--------|--------|
| 1      | Brown  |
| 2      | Orange |

## Mechanical Characteristics

## Min. Bend Radius (Install):

1.500 in.

## Electrical Characteristics

## Nom. Capacitance Conductor to Conductor:

## Capacitance (pF/ft)

46.000

## Nom. Conductor DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

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16.100

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

11.500

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.8 Amps per conductor @ 25°C

## Physical Characteristics (Overall)

## Conductor

## Overall Cable

Overall Cabling Color Code Chart:

| Number | Color  |
|--------|--------|
| 1      | Red    |
| 2      | Green  |
| 3      | Blue   |
| 4      | Yellow |
| 5      | Black  |
| 6      | White  |
| 7      | Brown  |
| 8      | Orange |

Overall Nominal Diameter:

0.426 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Separation Temperature Range: 0°C To +75°C

Bulk Cable Weight: 82 lbs/1000 ft.

Max. Recommended Pulling Tension: 185 lbs.

Min. Bend Radius/Minor Axis: 4.500 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| CEC/C(UL) Specification:              | CMP        |
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| 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): | 02/13/2007 |
| 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        |

Applicable Patents:

Country

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## Flame Test

UL Flame Test: NFPA 262 Plenum Flame Test (UL910)(FT6)

CSA Flame Test: FT6

## Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 5788AV

## Put Ups and Colors:

## 6788AV Composite - Audio and Video Composite Cable

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                     |
|----------------|----------|-------------|-------|-------|-------------------------------|
| 6788AV 0001000 | 1,000 FT | 99.000 LB   | NONE  | C     | 6XRG59 MINI#25+2P22 FS CMP BP |
| 6788AV 000250  | 250 FT   | 26.750 LB   | NONE  | C     | 6XRG59 MINI#25+2P22 FS CMP BP |
| 6788AV 009250  | 250 FT   | 26.750 LB   | WHITE | C     | 6XRG59 MINI#25+2P22 FS CMP BP |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 02-28-2014

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