

6788AV Composite - Audio and Video Composite Cable

For more Information
please call

1-800-Belden1



**Picture
Not Available**

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. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 6 | 25 | Solid | TC - Tinned Copper | 0.457 |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|-----------------------------|-----------|
| FPFA - Foam Perfluoroalkoxy | 1.880 |

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. (mm) |
|-------------------------|---------------------------------------|----------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride | 2.896 |

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): 27.940 mm

Electrical Characteristics

Nom. Characteristic Impedance:

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

Nom. Inductance:

METRIC MEASUREMENT VERSION

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Inductance (μH/m)

0.285

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

55.777

Nominal Velocity of Propagation:

VP (%)

80.000

Nominal Delay:

Delay (ns/m)

4.068

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

111.554

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

17.717

Minimum Return Loss:

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

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 1.706 |
| 5.000 | 3.839 |
| 50.000 | 12.140 |
| 100.000 | 16.077 |
| 200.000 | 21.983 |
| 400.000 | 31.170 |
| 750.000 | 43.965 |
| 900.000 | 49.215 |
| 1000.000 | 51.840 |
| 3000.000 | 102.367 |

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:

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

Inner Jacket

Inner Jacket Material:

| Inner Jacket Trade Name | Inner Jacket Material | Nom. Dia. (mm) |
|-------------------------|---------------------------------------|----------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride | 3.404 |

Inner Jacket Color Code Chart:

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

Mechanical Characteristics

Min. Bend Radius (Install): 38.100 mm

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/m) |
|--------------------|
| 150.926 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 52.824 |

Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 37.732 |

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: 10.820 mm

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 122.032 Kg/Km

Max. Recommended Pulling Tension: 822.917 N

Min. Bend Radius/Minor Axis: 114.300 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & 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 |
| MII Order #39 (China RoHS): | Yes |

Applicable Patents:

| |
|--|
| Country |
| www.belden.com/p |

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:

| 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.

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