

## 6788AV Composite - Audio and Video Composite Cable

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. (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:**

## 6788AV Composite - Audio and Video Composite Cable

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
<a href="http://www.belden.com/p">www.belden.com/p</a>

#### 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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