Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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 Perflouoroalkoxy	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:

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)

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 & 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:

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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.

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