

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

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	.074

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Aluminum Foil-Poly Tape-AluminumLightly bonded to dielectric	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
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	NFPA 262
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Suitability

Suitability - Indoor:	Yes
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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

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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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