

## 1278R Coax - Mini Hi-Res Component Video Cable



For more Information  
please call

1-800-Belden1



### General Description:

25 AWG solid .018" tinned copper conductors, Gas-injected FHDPE insulation, Duobond® foil plus a tinned copper interlocked serve shield (95% coverage), PVC inner jacket, 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. (mm)
4	25	Solid	TC - Tinned Copper	0.4572

**Total Number of Conductors:** 4

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	1.880

#### Inner Shield

**Inner Shield Material:**

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Aluminum Foil-Polyester Tape Lightly bonded to dielectric	100
2		Interlocked Serve	TC - Tinned Copper	95

#### Inner Jacket

**Inner Jacket Material:**

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	2.8956

**Inner Jacket Color Code Chart:**

Number	Color
1	Red
2	Green
3	Blue
4	Yellow

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Nominal Diameter:** 8.915 mm

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -40°C To +75°C

**UL Temperature Rating:** 60°C

## 1278R Coax - Mini Hi-Res Component Video Cable

Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	81.851 Kg/Km
Max. Recommended Pulling Tension:	489.302 N
Min. Bend Radius (Each Coax):	27.940 mm
Min. Bend Radius (Overall):	88.900 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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):	01/01/2004
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:	UL1666 Vertical Shaft
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#### Suitability

##### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)	75
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#### Nom. Inductance:

Inductance (µH/m)	0.285447
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#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)	55.777
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#### Nominal Velocity of Propagation:

VP (%)	80
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#### Nominal Delay:

Delay (ns/m)	4.06844
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#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	111.554
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#### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)	17.7174
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#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)	
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METRIC MEASUREMENT VERSION

## 1278R Coax - Mini Hi-Res Component Video Cable

1	1.70612
5	3.83877
50	12.1397
100	16.0769
200	21.9827
400	31.1695
750	43.9654
900	49.215
1000	51.8398
3000	102.367

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

### 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
1278R B591000	1,000 FT	60.000 LB	BLACK, MATTE	C	4#25LDPE/GIFHDLDPPE SH FRPVC/PVC
1278R B59500	500 FT	31.500 LB	BLACK, MATTE	C	4#25LDPE/GIFHDLDPPE SH FRPVC/PVC

#### Notes:

C = CRATE REEL PUT-UP.

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