

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

For more Information  
please call

1-800-Belden1



### Description:

25 AWG solid .018" tinned copper conductors, Gas-injected FHDPE insulation, Duobond® foil plus a tinned copper interlocked serve shield (100% 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

#### 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 Cabling

**Overall Nominal Diameter:** 8.915 mm

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 60°C

**Non-UL Temperature Rating:** 75°C

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

<b>Bulk Cable Weight:</b>	81.851 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	489.302 N
<b>Min. Bend Radius (Each Coax):</b>	27.940 mm
<b>Min. Bend Radius (Overall):</b>	76.200 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMR
<b>CEC/C(UL) Specification:</b>	CMG
<b>EU CE Mark:</b>	No
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>UL Flame Test:</b>	UL1666 Vertical Shaft
-----------------------	-----------------------

#### Suitability

<b>Suitability - Indoor:</b>	Yes - Risers
------------------------------	--------------

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
----------------------	----

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Inductance:

Inductance (µH/m)

0.285447

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

55.777

#### Nominal Velocity of Propagation:

VP (%)

80

#### Nominal Delay:

Delay (ns/m)

4.06844

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

111.554

#### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

17.7174

#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	1.70612
---	---------

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

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	305 MT	27.216 KG	BLACK, MATTE	C	4#25LDPE/GIFHDLDPPE SH FRPVC PVC
1278R B59500	152 MT	14.288 KG	BLACK, MATTE	C	4#25LDPE/GIFHDLDPPE SH FRPVC PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 04-11-2008

© 2010 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.