

## 1281S5 Coax - Banana Peel® Unjacketed Bundles Mini Hi-Res Component Video



For more Information  
please call

1-800-Belden1



### General Description:

25 AWG solid .018" tinned copper conductors, foam HDPE insulation, Duobond® foil plus a tinned copper interlocked serve shield (100% coverage), inner PVC jacket.

### Usage (Overall)

**Suitable Applications:** RGB, VGA, SVGA, XGA, SXGA, UXGA, HDTV, LCD, Plasma, Digital Signage, Component Video, Video Mult., Animation, Special Effects, Suitable for use in Risers

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 5      | 25  | Solid     | TC - Tinned Copper | .018       |

**Total Number of Conductors:** 5

#### Insulation

Insulation Material:

| Insulation Material                                 | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .074       |

#### Inner Shield

Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type              | Inner Shield Material                                     | Coverage (%) |
|---------|-------------------------|-------------------|---|--------------|
| 1       | Duobond®                | 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. (in.) |
|--------------------------|-----------------|
| PVC - Polyvinyl Chloride | .114            |

Inner Jacket Color Code Chart:

| Number | Color  |
|--------|--------|
| 1      | Red    |
| 2      | Green  |
| 3      | Blue   |
| 4      | Yellow |
| 5      | Black  |

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| Unjacketed            |

#### Overall Cable

**Overall Cabling Fillers:** Bonded Spline

**Overall Nominal Diameter:** 0.308 in.

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 60°C

**Non-UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 46 lbs/1000 ft.

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|                                   |           |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 83 lbs.   |
| Min. Bend Radius (Each Coax):     | 1.100 in. |
| Min. Bend Radius (Overall):       | 3.500 in. |

### 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): | 02/24/2005 |
| 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        |

#### Applicable Patents:

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

#### Flame Test

|                |                       |
|----------------|-----------------------|
| UL Flame Test: | UL1666 Vertical Shaft |
|----------------|-----------------------|

#### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

#### Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum (Y/N):  | No     |
| Plenum Number: | 1282S5 |

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 75              |

#### Nom. Inductance:

|                    |
|--------------------|
| Inductance (µH/ft) |
| .087               |

#### Nom. Capacitance Conductor to Shield:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 17.0                |

#### Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 80     |

#### Nominal Delay:

|               |
|---------------|
| Delay (ns/ft) |
| 1.24          |

#### 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           | 0.52                     |
| 5           | 1.17                     |
| 50          | 3.7                      |
| 100         | 4.9                      |
| 200         | 6.7                      |
| 400         | 9.5                      |

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|      |      |
|------|------|
| 750  | 13.4 |
| 900  | 15.0 |
| 1000 | 15.8 |
| 3000 | 31.2 |

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 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

**Notes (Overall)**

**Notes:** For 1281S5 010, all jackets are black and printed "RED/1", "GREEN/2", "BLUE/3", "YELLOW/4", and "BLACK/5"

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc  |
|----------------|----------|-------------|-------|-------|------------|
| 1281S5 0001000 | 1,000 FT | 50.000 LB   | NONE  | C     | 5C25 RGBSC |
| 1281S5 000250  | 250 FT   | 13.000 LB   | NONE  | C     | 5C25 RGBSC |
| 1281S5 000500  | 500 FT   | 25.000 LB   | NONE  | C     | 5C25 RGBSC |
| 1281S5 0101000 | 1,000 FT | 51.000 LB   | BLACK | C     | 5C25 RGBSC |
| 1281S5 010250  | 250 FT   | 13.000 LB   | BLACK | C     | 5C25 RGBSC |
| 1281S5 010500  | 500 FT   | 25.000 LB   | BLACK | C     | 5C25 RGBSC |

**Notes:**

C = CRATE REEL PUT-UP.

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

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