# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

**8213 Coax - 75 Ohm Coax**

For more Information please call

1-800-Belden1

## General Description:

14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shield (95% coverage), polyethylene jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|---|---|---|---|---|
| 1 | 14 | Solid | BC - Bare Copper | .064 |

| | |
|---|---|
| **Total Number of Conductors:** | 1 |

### Insulation

**Insulation Material:**

| Insulation Material | Dia. (in.) |
|---|---|
| Gas-injected FHDPE - Foam High Density Polyethylene | .285 |

### Outer Shield

**Outer Shield Material:**

| Type | Outer Shield Material | Coverage (%) |
|---|---|---|
| Braid | BC - Bare Copper | 95.000 |

### Outer Jacket

**Outer Jacket Material:**

| Outer Jacket Material |
|---|
| PE - Polyethylene |

### Overall Cable

| | |
|---|---|
| **Overall Nominal Diameter:** | 0.405 in. |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Operating Temperature Range:** | -55°C To +80°C |
| **Non-UL Temperature Rating:** | 80°C |
| **Bulk Cable Weight:** | 78 lbs/1000 ft. |
| **Max. Recommended Pulling Tension:** | 171 lbs. |
| **Min. Bend Radius/Minor Axis:** | 4 in. |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

| | |
|---|---|
| **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):** | 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 |
| **RG Type:** | 11/U |

### Suitability

| | |
|---|---|
| **Suitability - Indoor:** | Yes |
| **Suitability - Outdoor:** | Yes |

## Plenum/Non-Plenum

**Plenum (Y/N):** No

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

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

**Nom. Inductance:**

| Inductance (µH/ft) |
|---|
| .097 |

**Nom. Capacitance Conductor to Shield:**

| Capacitance (pF/ft) |
|---|
| 16.1 |

**Nominal Velocity of Propagation:**

| VP (%) |
|---|
| 84 |

**Nominal Delay:**

| Delay (ns/ft) |
|---|
| 1.21 |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 2.6 |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 1.1 |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|---|---|
| 1 | .2 |
| 10 | .4 |
| 50 | .9 |
| 100 | 1.3 |
| 200 | 1.9 |
| 400 | 2.9 |
| 700 | 4.1 |
| 900 | 4.8 |
| 1000 | 5.2 |

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

| Voltage |
|---|
| 300 V RMS |

**Typical Structural Return Loss:**

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Typical SRL (dB) |
|---|---|---|---|---|
| | | 5 | 450 | 23 |

## Notes (Overall)

**Notes:** 100% sweep tested. 5 MHz to 450 MHz.

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|
| 8213 | 1 EA | 0.000 LB | | | VB 1A-2-2-212/2 M |
| 8213 0101000 | 1,000 FT | 87.000 LB | BLACK | C | RG-11/U TYPE COAX |
| 8213 0102000 | 2,000 FT | 172.000 LB | BLACK | C | RG-11/U TYPE COAX |
| 8213 010500 | 500 FT | 44.000 LB | BLACK | C | RG-11/U TYPE COAX |

**Notes:**
C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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