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1-800-Belden1



## General Description:

13 AWG stranded (7x21) .089" silver-plated copper conductor, polyethylene insulation, double silver-plated copper braid shield (95% coverage), non-contaminating PVC jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material         | Dia. (mm) |
|--------|-----|-----------|----------------------------|-----------|
| 1      | 13  | 7x21      | SPC - Silver Plated Copper | 2.2606    |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene   | 7.239     |

### Outer Shield

Outer Shield Material:

| Layer # | Type  | Outer Shield Material      | Coverage (%) |
|---------|-------|----------------------------|--------------|
| 1       | Braid | SPC - Silver Plated Copper | 95.000       |
| 2       | Braid | SPC - Silver Plated Copper | 95.000       |

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material                        |
|--|
| PVCNC - Polyvinyl Chloride Non-Contaminating |

### Overall Cable

Overall Nominal Diameter: 10.795 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 194.954 Kg/Km

Max. Recommended Pulling Tension: 1000.845 N

Min. Bend Radius/Minor Axis: 152.400 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMX

CEC/C(UL) Specification: CMX

AWM Specification: UL Style 1354

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): 10/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

Military Specification: MIL-C-17, M17/075

RG Type: 214/U

**Flame Test**

UL Flame Test: VW-1

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
50

**Nom. Inductance:**

Inductance (µH/m)  
0.252637

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)  
101.055

**Nominal Velocity of Propagation:**

VP (%)  
66

**Nominal Delay:**

Delay (ns/m)  
5.05274

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)  
5.5777

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)  
2.2967

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1           | 0.55777               |
| 10          | 1.80455               |
| 50          | 4.2653                |
| 100         | 6.2339                |
| 200         | 8.8587                |
| 400         | 13.4521               |
| 700         | 21.3265               |
| 900         | 24.9356               |
| 1000        | 26.248                |
| 4000        | 65.62                 |

**Max. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 1500       |
| 100         | 907        |
| 200         | 549        |
| 400         | 332        |
| 700         | 221        |
| 900         | 184        |
| 1000        | 171        |
| 4000        | 62         |

**Max. Operating Voltage - UL:**

| Voltage   | Description       |
|-----------|-------------------|
| 30 V RMS  | UL AWM Style 1354 |
| 300 V RMS | NEC               |

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

Voltage  
3700 V RMS (MIL-Spec.)

**Notes (Overall)**

Notes: Non-SWR swept version of RG-214.

**Put Ups and Colors:**

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

### 8268 Coax - 50 Ohm Coax

| Item #       | Putup    | Ship Weight | Color | Notes | Item Desc          |
|--------------|----------|-------------|-------|-------|--------------------|
| 8268 0101000 | 1,000 FT | 140.000 LB  | BLACK | C     | M17/164-00001 COAX |
| 8268 010500  | 500 FT   | 70.500 LB   | BLACK | C     | M17/164-00001 COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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