

8268 Coax - 50 Ohm Coax

For more Information
please call

1-800-Belden1



Description:

13 AWG stranded (7x21) .089" silver-plated copper conductor, polyethylene insulation, double silver-plated copper braid shield (97% coverage), non-contaminating PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|----------------------------|------------|
| 1 | 13 | 7x21 | SPC - Silver Plated Copper | .089 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PE - Polyethylene | .285 |

Outer Shield

Outer Shield Material:

| Layer # | Type | Outer Shield Material | Coverage (%) |
|---------|-------|----------------------------|--------------|
| 1 | Braid | SPC - Silver Plated Copper | 95 |
| 2 | Braid | SPC - Silver Plated Copper | 97 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.425 in.

Mechanical Characteristics (Overall)

| | |
|--|--------------------------|
| Operating Temperature Range: | -40°C To +80°C |
| UL Temperature Rating: | 60°C (UL AWM Style 1354) |
| Bulk Cable Weight: | 128 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 225 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 6 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CMX |
| CEC/C(UL) Specification: | CMX |
| AWM Specification: | UL Style 1354 (30 V 60°C) |
| 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, M17/164-00001 |
| 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/ft) |
|--------------------|
| .077 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 30.8 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 66 |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.54 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 1.7 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 0.7 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | .17 |
| 10 | .55 |
| 50 | 1.3 |
| 100 | 1.9 |
| 200 | 2.7 |
| 400 | 4.1 |
| 700 | 6.5 |
| 900 | 7.6 |
| 1000 | 8.0 |
| 4000 | 20.0 |

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:

| 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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