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1-800-Belden1



General Description:

10 AWG solid .108" bare copper conductor, semi-solid polyethylene insulation, Duobond II® + tinned copper braid shield (90% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 10 | Solid | BC - Bare Copper | 2.7432 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|-----------------------------------------|-----------|
| Semi-Solid PE - Semi-Solid Polyethylene | 7.2644 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|---------------------------------------------------|--------------|
| 1 | Bonded DuoFoil® | Tape | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 90 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 10.287 mm

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -40°C To +80°C |
| Non-UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 159.237 Kg/Km |
| Max. Recommended Pulling Tension: | 1334.460 N |
| Min. Bend Radius/Minor Axis: | 101.600 mm |

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: | 8/U |
|----------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

| | |
|----------------|-------|
| Plenum Number: | 89913 |
|----------------|-------|

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

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

| |
|----|
| 50 |
|----|

Nom. Inductance:

| Inductance (μH/m) |
|-------------------|
|-------------------|

| |
|----------|
| 0.193579 |
|----------|

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
|--------------------|

| |
|---------|
| 80.7126 |
|---------|

Nominal Velocity of Propagation:

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

| |
|----|
| 84 |
|----|

Nominal Delay:

| Delay (ns/m) |
|--------------|
|--------------|

| |
|--------|
| 3.9372 |
|--------|

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
|---------------------|

| |
|--------|
| 2.9529 |
|--------|

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
|---------------------|

| |
|--------|
| 5.9058 |
|--------|

Nom. Attenuation:

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

| | |
|-------|-------|
| 5.000 | 1.312 |
|-------|-------|

| | |
|--------|-------|
| 10.000 | 1.641 |
|--------|-------|

| | |
|--------|-------|
| 50.000 | 3.281 |
|--------|-------|

| | |
|---------|-------|
| 100.000 | 4.593 |
|---------|-------|

| | |
|---------|-------|
| 200.000 | 5.906 |
|---------|-------|

| | |
|---------|-------|
| 400.000 | 8.531 |
|---------|-------|

| | |
|---------|--------|
| 700.000 | 11.812 |
|---------|--------|

| | |
|---------|--------|
| 900.000 | 13.452 |
|---------|--------|

| | |
|----------|--------|
| 1000.000 | 14.436 |
|----------|--------|

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
|-------------|------------|

| | |
|-------|----------|
| 5.000 | 4021.000 |
|-------|----------|

| | |
|--------|----------|
| 10.000 | 3217.000 |
|--------|----------|

| | |
|--------|----------|
| 50.000 | 1609.000 |
|--------|----------|

| | |
|---------|----------|
| 100.000 | 1149.000 |
|---------|----------|

| | |
|---------|---------|
| 200.000 | 894.000 |
|---------|---------|

| | |
|---------|---------|
| 400.000 | 619.000 |
|---------|---------|

| | |
|---------|---------|
| 700.000 | 447.000 |
|---------|---------|

| | |
|---------|---------|
| 900.000 | 393.000 |
|---------|---------|

| | |
|----------|---------|
| 1000.000 | 366.000 |
|----------|---------|

Max. Operating Voltage - Non-UL:

Voltage

600 V RMS

Notes (Overall)

Notes: Recommend use of 7810R, 7810A, 9913F7, or 9914 for applications above 1 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|------------------|
| 9913 010100 | 30 MT | 6.441 KG | BLACK | C | RG-8/U TYPE COAX |
| 9913 0101000 | 305 MT | 52.617 KG | BLACK | C | RG-8/U TYPE COAX |
| 9913 010250 | 76 MT | 14.402 KG | BLACK | C | RG-8/U TYPE COAX |
| 9913 010500 | 152 MT | 25.855 KG | BLACK | C | RG-8/U TYPE COAX |
| 9913 0105000 | 1,524 MT | 283.497 KG | BLACK | C | RG-8/U TYPE COAX |

Notes:

C = CRATE REEL PUT-UP.

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