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1-800-Belden1



General Description:

14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, bare copper double shields (95% and 80% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 14 | Solid | BC - Bare Copper | 1.6256 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 7.239 |

Inner Shield

Inner Shield Material:

| Type | Inner Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 95 |

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (mm) |
|--------------------------|----------------|
| PVC - Polyvinyl Chloride | 9.271 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 80 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 12.065 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 186.025 Kg/Km

Max. Recommended Pulling Tension: 756.194 N

Min. Bend Radius/Minor Axis: 120.650 mm

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): | 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 |

Flame Test

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

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/m) | 0.318257 |
|-------------------|----------|

Nom. Capacitance Conductor to Shield:

| | |
|--------------------|---------|
| Capacitance (pF/m) | 52.8241 |
|--------------------|---------|

Nominal Velocity of Propagation:

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

Nominal Delay:

| | |
|--------------|--------|
| Delay (ns/m) | 3.9372 |
|--------------|--------|

Nom. Conductor DC Resistance:

| | |
|---------------------|-------|
| DCR @ 20°C (Ohm/km) | 8.531 |
|---------------------|-------|

Nom. Inner Shield DC Resistance:

| | |
|---------------------|-------|
| DCR @ 20°C (Ohm/km) | 5.578 |
|---------------------|-------|

Nominal Outer Shield DC Resistance:

| | |
|---------------------|-------|
| DCR @ 20°C (Ohm/km) | 4.922 |
|---------------------|-------|

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 0.459 |
| 3.600 | 0.984 |
| 10.000 | 1.312 |
| 71.500 | 3.609 |
| 135.000 | 5.250 |
| 270.000 | 7.546 |
| 360.000 | 8.531 |
| 540.000 | 10.827 |
| 720.000 | 12.468 |
| 750.000 | 13.124 |
| 1000.000 | 15.093 |
| 1500.000 | 19.358 |
| 2250.000 | 24.279 |
| 3000.000 | 29.529 |
| 4500.000 | 41.013 |

Max. Operating Voltage - UL:

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

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000 | 850.000 | 21.000 |
| 850.000 | 4500.000 | 15.000 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|--------------------------------|
| 8233A 0101000 | 1,000 FT | 133.000 LB | BLACK | C | #14 GIFHDPE/PE BRD PVC BRD PVC |
| 8233A 0102000 | 2,000 FT | 266.000 LB | BLACK | C | #14 GIFHDPE/PE BRD PVC BRD PVC |
| 8233A 0104000 | 4,000 FT | 572.000 LB | BLACK | C | #14 GIFHDPE/PE BRD PVC BRD PVC |
| 8233A 0105000 | 5,000 FT | 690.000 LB | BLACK | | #14 GIFHDPE/PE BRD PVC BRD PVC |

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 06-26-2013

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