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1-800-Belden1



Description:

23 AWG solid .023" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 23 | Solid | BC - Bare Copper | 0.5842 |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 2.5908 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

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

Overall Cabling

Overall Nominal Diameter: 4.039 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 25.299 Kg/Km

Max. Recommended Pulling Tension: 160.135 N

Min. Bend Radius (Install)/Minor Axis: 38.100 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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: | Sub-miniature 59/U |

Flame Test

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

Suitability

| | |
|------------------------|--|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black only |
| Suitability - Aerial: | Yes - Black only, when supported by a messenger wire |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.351067

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.4803

Nominal Velocity of Propagation:

VP (%)

82

Nominal Delay:

Delay (ns/m)

4.00282

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

65.9481

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

24.9356

Nom. Attenuation:

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

| | |
|---------|--------|
| 1.000 | 1.280 |
| 3.580 | 2.559 |
| 5.000 | 3.019 |
| 6.000 | 3.281 |
| 7.000 | 3.543 |
| 10.000 | 3.937 |
| 12.000 | 4.265 |
| 25.000 | 5.906 |
| 67.500 | 9.285 |
| 71.500 | 10.040 |
| 88.500 | 10.368 |
| 100.000 | 10.926 |
| 135.000 | 12.501 |
| 143.000 | 12.862 |
| 180.000 | 14.371 |
| 270.000 | 17.717 |

| | |
|----------|--------|
| 360.000 | 20.342 |
| 540.000 | 25.264 |
| 720.000 | 31.071 |
| 750.000 | 31.465 |
| 1000.000 | 34.451 |
| 1500.000 | 42.653 |
| 2000.000 | 49.543 |
| 2250.000 | 52.496 |
| 3000.000 | 60.699 |
| 4500.000 | 74.807 |

Max. Operating Voltage - UL:

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

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Other Electrical Characteristic 2: Return loss tested in accordance with ASTM D-4566 paragraph 45.3 using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5 | 1600 | 23 |
| 1601 | 4500 | 21 |

Sweep Test

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

Misc. Information (Overall)

Notes (Overall)

Notes: Also available in multiples, bundled. See 7787A through 7792A.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|-------------|-------|--------------------------|
| 1855A N3U1000 | 305 MT | 7.711 KG | GREEN, MIL | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0011000 | 305 MT | 7.711 KG | BROWN | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0021000 | 305 MT | 7.711 KG | RED | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0031000 | 305 MT | 7.711 KG | ORANGE | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0041000 | 305 MT | 7.711 KG | YELLOW | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0061000 | 305 MT | 7.711 KG | BLUE, LIGHT | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0071000 | 305 MT | 7.711 KG | VIOLET | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0081000 | 305 MT | 7.711 KG | GRAY | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0091000 | 305 MT | 7.711 KG | WHITE | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 0101000 | 305 MT | 7.711 KG | BLACK | C | #23 PE/GIFHDPE SH FR PVC |
| 1855A 010500 | 152 MT | 4.309 KG | BLACK | | #23 PE/GIFHDPE SH FR PVC |

Notes:

C = CRATE REEL PUT-UP.

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А