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1-800-Belden1



General Description:

22 AWG stranded (7x30) conductors, foam polyethylene insulation (coax) and PVC (Pairs) insulation, coax w/BC braid shield (95% coverage), (1) twisted pair w/Beldfoil® shield, 22 AWG drain wire, PVC jacket.

Coax

Physical Characteristics

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 22 | 7x30 | BC - Bare Copper | 0.030 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | 0.146 |

Inner Shield

Inner Shield Material:

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

Applicable Specifications and Agency Compliance

Applicable Standards & Environmental Programs

EU CE Mark: No

RG Type: 59/U

Electrical Characteristics

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 75 |

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| 0.090 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 17.300 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 78.000 |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.300 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 15.000 |

Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 2.600 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000 | 0.300 |
| 5.000 | 0.700 |
| 10.000 | 1.000 |
| 50.000 | 2.100 |
| 100.000 | 3.000 |

Other Electrical Characteristic 1:

Coax Nominal Voltage Breakdown Jacket (Shield to Ground) = 22kV RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1 | 22 | 7x30 | TC - Tinned Copper | 0.030 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--------------------------|------------|
| PVC - Polyvinyl Chloride | 0.054 |

Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®) | Tape | Aluminum Foil-Polyester Tape | 100 |

Inner Shield Drain Wire AWG:

| AWG | Stranding | Dia. (in.) | Conductor Material |
|-----|-----------|------------|--------------------|
| 22 | 7x30 | 0.030 | TC - Tinned Copper |

Inner Jacket

Inner Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | Red |

Electrical Characteristics

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 35 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 95.500 |

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 51.000 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 58.000 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 11.000 |

Other Electrical Characteristic 1:

Twisted Pair Nominal Voltage Breakdown Jacket (Shield to Ground) = 19kV RMS

Physical Characteristics (Overall)

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.470 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 58.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 68.000 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL2

AWM Specification: UL Style 20006

EU Directive 2011/65/EU (ROHS II): Yes

| | |
|---------------------------------------|------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| 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 |

Flame Test

| | |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 30 V RMS |

Notes (Overall)

Notes: Simaese Type Construction.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|--------------------------|
| 9265 0101000 | 1,000 FT | 62.000 LB | BLACK | C | 1 SH PR#22,1 75 OHM COAX |
| 9265 010500 | 500 FT | 32.500 LB | BLACK | C | 1 SH PR#22,1 75 OHM COAX |

Notes:

C = CRATE REEL PUT-UP.

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