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1-800-Belden1



General Description:

28 AWG stranded (7x36) bare copper conductors, non-plenum, patented step polyolefin insulation, twisted pairs, overall Beldfoil® shielded + TC braid shield (65% coverage), TC drain wire, PVC jacket (see RISC color code chart below).

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 6 | 3 | 28 | 7x36 | BC - Bare Copper |

Total Number of Conductors: 6

Insulation

Insulation Material:

| Layer # | Insulation Material | Wall Thickness (in.) |
|---------|--------------------------------|----------------------|
| 1 | Solid PP - Solid Polypropylene | 0.010 |
| 2 | Solid PE - Solid Polyethylene | 0.005 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 65 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 28 | 7x36 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.020 |

Overall Cable

Overall Nominal Diameter: 0.230 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|---------------------------------------|
| 1 | White over Blue & Blue over White |
| 2 | White over Orange & Orange over White |
| 3 | White over Green & Green over White |

Mechanical Characteristics (Overall)

Bulk Cable Weight: 22 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL2

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): 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 |
| Other Specification: | RJ-45 compatible |
| Customer Part Number Reference Specification: | IBM P/N: N Cable |

Flame Test

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 120 |

Nom. Capacitance Conductor to Conductor:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 12 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 21.5 |

Nom. Conductor DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 63 |

Nominal Outer Shield DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 5.5 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/1000 ft.) |
|-------------|---------------------------|
| 1 | 8 |
| 4 | 17 |
| 10 | 26 |
| 16 | 32 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 150 V RMS |

Max. Recommended Current:

| |
|-------------------------------|
| Current |
| 0.9 Amps per conductor @ 25°C |

Electrical Characteristics-Premise (Overall)

Premise

Minimum NEXT:

| Freq. (MHz) | NEXT (dB) |
|-------------|-----------|
| 1 | 60 |
| 4 | 50 |
| 10 | 45 |
| 16 | 40 |

Notes (Overall)

Notes: US Patent # 5, 220, 130. Single conductors are dually insulated. The outer layer of insulation must be stripped off before attaching modular connectors.

Notes (Cont'd.): Use a stripping tool such as Cooper Tools Xcelite Model 103-S or equivalent with a mechanical stop to avoid nicking the inner insulation.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------|-------|--------------------------|
| 1538A 008U1000 | 1,000 FT | 24.000 LB | GRAY | | 3 PR #28 PP/PE SH FR PVC |
| 1538A 0081000 | 1,000 FT | 25.000 LB | GRAY | C | 3 PR #28 PP/PE SH FR PVC |

Notes:
C = CRATE REEL PUT-UP.

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