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1-800-Belden1



General Description:

22 and 24 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (Data), individually foil shielded (100% coverage) and an overall tinned copper braid (65% coverage), CPE jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 4 | 1 | 22 | 19x34 | TC - Tinned Copper |
| | 1 | 24 | 19x36 | TC - Tinned Copper |

Insulation

Insulation Material:

| Insulation Material | AWG |
|--------------------------|-----|
| PVC - Polyvinyl Chloride | 22 |
| FPE - Foam Polyethylene | 24 |

Inner Shield

Inner Shield Material:

| Layer # | Type | Inner Shield Material | Coverage (%) |
|-------------|------|------------------------------|--------------|
| 22 AWG Pair | Tape | Aluminum Foil-Polyester Tape | 100 |
| 24 AWG Pair | Tape | Aluminum Foil-Polyester Tape | 100 |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: 19x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper | 65 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------------|
| CPE - Chlorinated Polyethylene |

Overall Cable

Overall Nominal Diameter: 7.112 mm

Pair

Pair Color Code Chart:

| Number | Color |
|-------------|--------------|
| 22 AWG Pair | Red & Black |
| 24 AWG Pair | Blue & White |

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 68.457 Kg/Km

Max. Recommended Pulling Tension: 289.133 N

Min. Bend Radius/Minor Axis: 69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG, CL2

3085A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

| | |
|---------------------------------------|-------------------|
| CEC/C(UL) Specification: | CMG |
| 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): | 10/13/2005 |
| 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: | ODVA Class 2 Thin |

Flame Test

| | |
|-----------------|--------------------|
| UL Flame Test: | UL1685 FT4 Loading |
| CSA Flame Test: | FT4 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description | Impedance (Ohm) |
|-------------|-----------------|
| 24 AWG Pair | 120 |

Nom. Capacitance Conductor to Conductor:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Capacitance (pF/m) |
|-------------|-------------|-------------------|------------------|--------------------|
| 24 AWG Pair | 1 | | | 39.372 |

Nominal Velocity of Propagation:

| Description | VP (%) |
|-------------|--------|
| 24 AWG Pair | 75 |

Maximum Delay:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Delay (ns/m) |
|-------------|-------------|-------------------|------------------|--------------|
| 24 AWG Pair | | | | 4.46216 |

Maximum Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/100 m) |
|-------------|------------------------|
| 22 AWG | 57.4175 |
| 24 AWG | 91.868 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 10.4992 |

Max. Attenuation:

| () | Description | Freq. (MHz) |
|---------|------------------|-------------|
| 0.95149 | 24 AWG Pair Only | .125 |
| 1.6405 | | .500 |
| 2.2967 | | 1.000 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

| Current |
|------------------------------------------------------|
| 1.7 Amps per conductor @ 25°C (24 AWG) |
| 4 Amps per conductor @ 24 V per NEC CL2 (Power Pair) |

Notes (Overall)

Notes: Thin. Meter marks on jacket to aid users in installation. ODVA Devicenet is an Open DeviceNet Vendor Association, Inc. trademark.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|----------------|-------|-----------------------|
| 3085A 5601000 | 1,000 FT | 47.000 LB | YELLOW, BRIGHT | C | 2 #22, 2 #24 SHLD CPE |
| 3085A 5602000 | 2,000 FT | 96.000 LB | YELLOW, BRIGHT | C | 2 #22, 2 #24 SHLD CPE |
| 3085A 5605000 | 500 FT | 23.500 LB | YELLOW, BRIGHT | C | 2 #22, 2 #24 SHLD CPE |
| 3085A 5605000 | 5,000 FT | 235.000 LB | YELLOW, BRIGHT | C Z | 2 #22, 2 #24 SHLD CPE |

METRIC MEASUREMENT VERSION

3085A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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