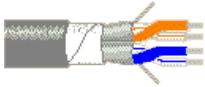


7838A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable



For more Information
please call

1-800-Belden1



General Description:

22 AWG solid tinned copper conductors, twisted pairs, Datalene® insulation, individually shielded with 100% Beldfoil® shield, 24 AWG solid tinned copper drain wire each pair, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 2 | 22 | Solid | TC - Tinned Copper | .0254 |

Total Number of Conductors: 4

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material |
|-----------------------|---|
| Datalene® | PO w/Foam PO - Polyolefin w/Foam Polyolefin |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 24 |

Inner Shield Drain Wire Stranding: Solid

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.202 x 0.360 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-----------------------|
| 1 | Blue & White/Blue |
| 2 | Orange & White/Orange |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 33 lbs/1000 ft.

Max. Recommended Pulling Tension: 31 lbs.

Min. Bend Radius/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

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

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| | |
|-----------------------------------|-----|
| 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 |

Flame Test

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description | Impedance (Ohm) |
|-------------|-----------------|
| @ 1 MHz | 100.000 |

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| 0.24 |

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 14.5 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 72 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 16.7 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/1000 ft.) |
|-------------|---------------------------|
| 0.772 | 4.300 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

| Current |
|-------------------------------|
| 3.5 Amps per conductor @ 25°C |

| | |
|---------------------------------|-----|
| Differential Impedance @ 1 MHz: | 105 |
|---------------------------------|-----|

Notes (Overall)

Notes: Single conductors are dual insulated. The outer layer of insulation must be stripped off before attaching modular connectors. Use a stripping tool such as Cooper Tools Xcelite model 103-S, or equivalent with a mechanical stop to avoid nicking the inner insulation. RJ-45 Compatible.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------|-------|-----------------------------|
| 7838A 0601000 | 1,000 FT | 37.000 LB | CHROME | C | 2 FS PR #22 PP/FPE PVC PARA |
| 7838A 0602000 | 2,000 FT | 74.000 LB | CHROME | C | 2 FS PR #22 PP/FPE PVC PARA |
| 7838A 0605000 | 5,000 FT | 180.000 LB | CHROME | C | 2 FS PR #22 PP/FPE PVC PARA |

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 02-23-2017

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