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please call

1-800-Belden1



Description:

Belden's miniaturized .025" pitch gray ribbon cable provides higher signal density and greater design flexibility. The cable is manufactured to precise tolerances which allows for mass-termination to standard IDC connectors.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 50 | 30 | 7x38 | TC - Tinned Copper |

Conductor Spacing Center to Center: .025 +/- .002

Conductor Spacing Outside Center to Outside Center: 1.225 +/- .009

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | .0075 |

Insulation Resistance: > 10,000 Megaohms

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Overall Cable

Overall Nominal Thickness: .027 +/- .002

Overall Nominal Width: 1.25 +/- .011

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +105°C

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|-------------------------|
| UL AWM Style: | 2678 |
| UL Rating: | 105°C, 150 V, VW-1 |
| CSA Specification: | AWM I A 105°C 150 V FT1 |
| CSA Rating: | 105°C, 150 V, FT1 |
| 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): | 07/01/2005 |
| 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 |
|-----------------------------|-----|

Flame Test

| | |
|----------------|------|
| UL Flame Test: | VW-1 |
|----------------|------|

| | |
|-----------------|-----|
| CSA Flame Test: | FT1 |
|-----------------|-----|

Plenum/Non-Plenum

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

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description | Impedance (Ohm) |
|-------------|-----------------|
| (GS) | 105 |
| (GSG) | 70 |

Nom. Inductance:

| Description | Inductance (μH/ft) |
|---------------|--------------------|
| @ 1 MHz (GS) | .21 |
| @ 1 MHz (GSG) | .14 |

Nom. Capacitance Conductor to Conductor:

| Description | Capacitance (pF/ft) |
|---------------|---------------------|
| @ 1 kHz (GS) | 18 |
| @ 1 kHz (GSG) | 32 |
| @ 1 MHz (GS) | 14 |
| @ 1 MHz (GSG) | 24 |

Nominal Velocity of Propagation:

| Description | VP (%) |
|-------------|--------|
| | 66 |

Nominal Delay:

| Delay (ns/ft) |
|-------------------|
| 1.52 NS/FT. (GSG) |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 108 OHMS/1000 FT. MAX. |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 10 | 5.4 |
| 20 | 9.5 |
| 30 | 14.1 |
| 40 | 18 |
| 50 | 20.1 |
| 60 | 24.9 |
| 70 | 26.5 |
| 80 | 30 |
| 90 | 30.6 |
| 100 | 33 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

| Current |
|-------------------------------|
| 0.5 Amps per conductor @ 20°C |

Dielectric Withstand Voltage: 2,000 V RMS

Typical Unbalanced Crosstalk:

| Description | Pulse Rise Time (NS) (MHz) | Near End % (MHz) | Far End % (MHz) |
|----------------------|----------------------------|------------------|-----------------|
| 10 ft. sample length | 3 | 6 | 7.1 |
| 10 ft. sample length | 5 | 5.4 | 7 |
| 10 ft. sample length | 7 | 5 | 6.6 |

Notes (Overall)

Notes: GSG=Ground-Signal-Ground Mode

Polarity Identification (Overall)

Polarity Identification: RED POLARITY STRIPE ON #1 CONDUCTOR

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|--------|-------------|-------|-------|-----------------------|
| 9L30050 008H100 | 100 FT | 3.400 LB | GRAY | | 50 #30 STR PVC RIBBON |

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