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1-800-Belden1



Description:

20 AWG stranded (7x28) TC conductors, non-plenum, Datalene® insulation, twisted pairs, overall polyester isolation tape + Duofoil® + TC braid shield (95% coverage), drain wire, light gray PVC jacket.

Usage (Overall)

Suitable Applications: IEEE 802.3 Transceiver Cable

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 20 | 7x28 | TC - Tinned Copper |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material |
|-----------------------|--|
| Datalene® | FHDPE - Foam High Density Polyethylene |

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 |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.415 in.

Pair

Pair Color Code Chart:

| Number | Color |
|------------|-----------------|
| 1 (78 Ohm) | Gray & White |
| 2 (78 Ohm) | Yellow & Orange |
| 3 (78 Ohm) | Blue & Green |

| | |
|-----------|-------------|
| 4 (Power) | Black & Red |
|-----------|-------------|

Mechanical Characteristics (Overall)

| | |
|--|--------------------------|
| Operating Temperature Range: | -20°C To +80°C |
| UL Temperature Rating: | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight: | 96 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 230 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 4.250 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---|---------------------------|
| NEC/(UL) Specification: | CM, CL2 |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2919 (30 V 80°C) |
| IEEE Specification: | IEEE802.3 10Base5 |
| Other Standards: | ISO8802.3 10Base5 |
| 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): | 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 |
| Customer Part Number Reference Specification: | DEC Part No. 17-01320-00 |

Flame Test

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

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 89901 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

78

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

16.7

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

29.5

Nominal Velocity of Propagation:

VP (%)

78

Nominal Delay:

Delay (ns/ft)

1.30

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 10.5 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 2 |

Max. Attenuation:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Attenuation (dB/100 m) |
|-------------|-------------|-------------------|------------------|------------------------|
| | 10 | | | 6 |

Max. Operating Voltage - UL:

| Voltage |
|------------------------------|
| 30 V RMS (UL AWM Style 2919) |

Max. Recommended Current:

| Current |
|-------------------------------|
| 2.8 Amps per conductor @ 25°C |

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-----------------|-------|--------------------|
| 9901 E4X1000 | 1,000 FT | 106.000 LB | GRAY, LIGHT DEC | C | 4 #20 SH PR SH PVC |
| 9901 E4X500 | 500 FT | 53.500 LB | GRAY, LIGHT DEC | C | 4 #20 SH PR SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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