

9729 Multi-Conductor - Shielded Twisted Pair Cable



For more Information
please call

1-800-Belden1



Description:

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, individually Beldfoil® shielded (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 2 | 24 | 7x32 | TC - Tinned Copper | .024 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (in.) |
|-----------------------|-------------------------|------------|
| Datalene® | FPE - Foam Polyethylene | .061 |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

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

Inner Shield Drain Wire Stranding: 7x32

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: 0.266 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|---------------|
| 1 | Black & Red |
| 2 | Black & White |

Pair Lay Length & Direction:

| Lay Length (in.) | Twists (twist/ft) |
|------------------|-------------------|
| 1.100 | 10.900 |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 60°C (UL AWM Style 2493)

Bulk Cable Weight: 34.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 22 lbs.

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Min. Bend Radius (Install)/Minor Axis: 3.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification: UL Style 2493 (300 V 60°C)

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

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 89729, 82729

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Inductance:

Inductance (µH/ft)

0.23

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

23.2

Nominal Velocity of Propagation:

VP (%)

76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 15 Ohm/1000 ft

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

.384 0.74

.7056 0.87

.768 0.88

1.024 0.94

1.4112 1.01

1.536 1.03

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| | |
|---------|------|
| 2.048 | 1.13 |
| 2.8224 | 1.29 |
| 3.072 | 1.35 |
| 4.096 | 1.57 |
| 5.6448 | 1.78 |
| 6.144 | 1.84 |
| 8.192 | 2.13 |
| 11.2896 | 2.45 |
| 12.288 | 2.57 |
| 24.576 | 3.57 |

Max. Operating Voltage - UL:

| Voltage |
|-------------------------------|
| 300 V RMS (UL AWM Style 2493) |

Max. Recommended Current:

| Current |
|----------------------------|
| 1 Amp per conductor @ 25°C |

Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|-----------|-------------|--------|-------|-----------------------|
| 9729 060100 | 100 FT | 4.300 LB | CHROME | | 2 FS PR #24 FHDPE PVC |
| 9729 0601000 | 1,000 FT | 38.000 LB | CHROME | C | 2 FS PR #24 FHDPE PVC |
| 9729 06010000 | 10,000 FT | 390.000 LB | CHROME | C Y | 2 FS PR #24 FHDPE PVC |
| 9729 060500 | 500 FT | 20.500 LB | CHROME | C | 2 FS PR #24 FHDPE PVC |

Notes:

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
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Как с нами связаться

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