



Product: [3073F](#)

DataTray® 100Ω Twinax, 1 Pr #18 Str TC, PP Ins, OS+TC Brd, PVC Jkt, TC, PLTC, ITC, CMG

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Product Description

Twinax 100Ω, 1 Pair 18 AWG (7x26) Tinned Copper, PP Insulation, Overall Beldfoil®+Tinned Copper Braid(55%) Shield, PVC Outer Jacket, TC, PLTC, ITC, CMG

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Harsh environment, IIoT, factory or process automation, video, audio, data communication, etc. |
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Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Nom. Diameter | Material |
|---------|-------------------|--------|-----------|---------------|--------------------|
| Pair(s) | 1 | 18 AWG | 7x26 | 0.046 in | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Insulation Diameter | Color Code | Notes |
|---------|--------------------|--------------------------|--------------|-----------------|
| Pair(s) | PP - Polypropylene | 0.128 in (3.25 mm) | White & Blue | Flame Retardant |

Outer Shield

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage | Notes |
|-------|-------------------|-------------------------|---------------------|----------|----------|
| 1 | Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | Foil Out |
| 2 | Braid | Tinned Copper (TC) | | 55% | |

Outer Jacket

| Material | Nom. Diameter |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.388 in (9.86 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.388 in (9.86 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 2 MHz | 0.41 dB/100ft |
| 10 MHz | 1.33 dB/100ft |
| 50 MHz | 2.97 dB/100ft |
| 100 MHz | 4.20 dB/100ft |
| 200 MHz | 5.95 dB/100ft |
| 400 MHz | 7.52 dB/100ft |

Electricals

| Element | Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Cond (Mutual) | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---------|--------------------|-----------------------------|--|-------------------------------|------------------------|
| Pair(s) | 6.9 Ohm/1000ft | 2.9 Ohm/1000ft (9.5 Ohm/km) | 15.3 pF/ft (50.2 pF/m) | 100 Ohm | 65% |

Voltage

| |
|-------------------|
| UL Voltage Rating |
|-------------------|

600 V (TC), 300 V (CMG, PLTC)

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|-----------------------------|----------------|
| 75°C Dry, PLTC 75°C Dry/Wet | -40°C to +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.2 in (81 mm) | 2.4 in (61 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 90 lbs (41 kg) |
| Bulk Cable Weight: | 77 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Aerial - When supported by messenger wire |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 UL Loading, FT1FT4 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 336, Article 725, Article 727, Article 800, CMG, ITC, PLTC, TC |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

Product Notes

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| Notes: | Cable contains rod fillers for better electrical performance. CPE Jacket Optional. |
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History

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| Update and Revision: | Revision Number: 0.473 Revision Date: 04-28-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------------|------------|----------|--------------|
| 3073F C551000 | Blue, Cairo | Reel | 1,000 ft | 612825140139 |
| 3073F C555000 | Blue, Cairo | Reel | 5,000 ft | 612825140146 |

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