



Product: [3074F](#)

DataTray® 120Ω Twinax, 1 Pr #18 Str TC, PP Ins, OS+TC Brd, PVC Jkt, TC, PLTC, ITC, CMG

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Product Description

Twinax 120Ω, 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. |
|------------------------|------------------------------------------------------------------------------------------------|

Construction Details

Conductor

| AWG | Stranding | Nom. Diameter | Material           |
|-----|-----------|---------------|--------------------|
| 18  | 7x26      | 0.046 in      | TC - Tinned Copper |

Insulation

| Material           | Color Code   | Nom. Diameter | Notes           |
|--------------------|--------------|---------------|-----------------|
| PP - Polypropylene | White & Blue | 0.164 in      | 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 | 0.460 in      |

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 3 MHz     | 0.34 dB/100ft               |
| 10 MHz    | 1.07 dB/100ft               |
| 50 MHz    | 2.39 dB/100ft               |
| 100 MHz   | 3.38 dB/100ft               |
| 200 MHz   | 4.78 dB/100ft               |
| 400 MHz   | 6.76 dB/100ft               |

Electricals

| Element | Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Cond (Mutual) | Nom. Characteristic Impedance | Nom. Velocity |
|---------|--------------------|-----------------------|----------------------------------------|-------------------------------|---------------|
| Pair(s) | 6.9 Ohm/1000ft     | 2.83 Ohm/1000ft       | 12.3 pF/ft                             | 120 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)  | 2.5 in            |

|                    |                 |
|--------------------|-----------------|
| Bulk Cable Weight: | 89.6 lbs/1000ft |
| Max. Pull Tension: | 93 lbs          |

Standards and Compliance

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance                                                       |
| Sustainability:                 | CA Prop 65                                                                                                                |
| Flammability / Fire Resistance: | UL1685 UL Loading, FT1, FT4, FT1, FT4                                                                                     |
| 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) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)                                                                                           |

Product Notes

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.363 Revision Date: 10-13-2021 |
|----------------------|--------------------------------------------------|

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