



Product: [3074F](#)

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

Request Sample

Product Description

DataTray® Twinax 120Ω, 1 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(55%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material           | Nominal Diameter | No. of Pairs |
|-----|-----------|--------------------|------------------|--------------|
| 18  | 7x26      | TC - Tinned Copper | 0.046 in         | 1            |

|                        |   |
|------------------------|---|
| Conductor Count:       | 2 |
| Total Number of Pairs: | 1 |

Insulation

| Material           | Nominal Diameter |
|--------------------|------------------|
| PP - Polypropylene | 0.164 in         |

Color Chart

| Number | Color   |
|--------|---------|
| 1      | Natural |
| 2      | Blue    |

Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire Diameter | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|--------------------|---------------------|--------------|--------------------|--------------------|---------------|------------------------------|
| Tape  | 1     | Alum / Poly        | Beldfoil®           | 100 %        | TC - Tinned Copper | 0.036 in           | 20            | 7x28                         |
| Braid | 2     | TC - Tinned Copper |                     | 55 %         |                    |                    |               |                              |

Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.46 in          | 0.053 in               |

Construction and Dimensions

Stranding

| Diameter |
|----------|
| 0.328 mm |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.9 Ohm/1000ft        | 2.83 Ohm/1000ft          |

Capacitance

| Nom.Mutual Capacitance |
|------------------------|
| 12.3 pF/ft             |

Inductance

| Nominal Inductance |
|--------------------|
| 0.18 µH/ft         |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 120 Ohm                          |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 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       |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.58 ns/ft    | 65.0 %                                   |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Electrical Characteristics Notes: | Mutual Capacitance: 12.3 pF/ft |
|-----------------------------------|--------------------------------|

Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 75°C Dry       |
| Operating Temp Range: | -40°C To +75°C |

Mechanical Characteristics

|                                  |                 |
|----------------------------------|-----------------|
| Bulk Cable Weight:               | 89.6 lbs/1000ft |
| Max Recommended Pulling Tension: | 93 lbs          |
| Min Bend Radius/Minor Axis:      | 4.5 in          |

Standards

|                          |                    |
|--------------------------|--------------------|
| NEC/(UL) Specification:  | CMG, ITC, PLTC, TC |
| CEC/C(UL) Specification: | CMG                |
| CPR Euroclass:           | Eca                |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-13                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Sunlight Resistance: | Yes |
|------------------------------------|-----|

Flammability, LS0H, Toxicity Testing

|                       |                         |
|-----------------------|-------------------------|
| C(UL) Flammability:   | FT1, FT4                |
| UL Flammability:      | UL1685 UL Loading       |
| CSA Flammability:     | FT1, FT4                |
| ISO/IEC Flammability: | IEC 60332-1-2           |
| UL voltage rating:    | 600 V RMS (NEC Type TC) |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #        | Color       | Putup Type | Length   | UPC          |
|---------------|-------------|------------|----------|--------------|
| 3074F C55500  | Blue, Cairo | Reel       | 500 ft   | 612825140177 |
| 3074F C551000 | Blue, Cairo | Reel       | 1,000 ft | 612825140153 |
| 3074F C552500 | Blue, Cairo | Reel       | 2,500 ft | 612825140160 |
| 3074F C555000 | Blue, Cairo | Reel       | 5,000 ft | 612825140184 |

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| Footnote: | C - CRATE REEL PUT-UP.                                          |
| Footnote: | N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN. |

Product Notes

|        |                      |
|--------|----------------------|
| Notes: | CPE Jacket Optional. |
|--------|----------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.302 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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