



Product: [3073F](#)

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

Request Sample

### 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.
------------------------	--

#### Construction Details

##### Conductor

Element	No. of Elements	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

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

## History

Update and Revision:	Revision Number: 0.483 Revision Date: 11-27-2023
----------------------	--

## Part Numbers

### Variants

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

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.