



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.
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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
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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
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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
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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.
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History

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