



**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

RS-485 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. RS-485
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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	0.164 in (4.17 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	0.460 in (11.7 mm)

Overall Cable Diameter (Nominal):	0.460 in (11.7 mm)
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Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
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 of Prop.
Pair(s)	6.9 Ohm/1000ft	2.83 Ohm/1000ft (9.28 Ohm/km)	12.3 pF/ft (40.4 pF/m)	120 Ohm	65%

Voltage

UL Voltage Rating
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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 (64 mm)

Max. Pull Tension:	93 lbs (42 kg)
Bulk Cable Weight:	97 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
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.
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History

Update and Revision:	Revision Number: 0.479 Revision Date: 04-29-2024
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Part Numbers

Variants

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

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