



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	Number of Element	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

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: 0.475 Revision Date: 05-05-2023
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Part Numbers

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

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