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

AWG	Stranding	Nom. Diameter	Material
18	7x26	0.046 in	TC - Tinned Copper

Insulation

Material	Color Code	Nom. Diameter	Notes
PP - Polypropylene	White & Blue	0.128	Flame Retardant

Outer Shield Material

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

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.388 in

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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. Impedence	Nom. Velocity
Pair(s)	6.9 Ohm/1000ft	2.9 Ohm/1000ft	15.3 pF/ft	100 Ohm	64.5%

Voltage

UL Voltage Rating
600 V (TC), 300 V (CMG, PLTC)

Mechanical Characteristics

Temperature

UL Rating	Operating
75°C Dry, PLTC 75°C Dry/Wet	-40°C to +75°C

Bend Radius

Installation Min.
2.4 in

Bulk Cable Weight:	61 lbs/1000ft
Max. Pull Tension:	90 lbs

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT1, FT4, FT1, FT4
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, EU Directive 2011/65/EU (ROHS II), 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.

History

Update and Revision:	Revision Number: 0.326 Revision Date: 07-31-2020

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