



Part Number: 3073F

DataTray®, (1 pr) 18 AWG (7x26) TC, FRPO/PVC, Foil+TC Braid Shld, CMG, TC/PLTC/ITC, 100Ω

Product Description

One 18 AWG pair stranded (7x26) tinned copper conductors, flame-retardant polyolefin insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), UV-resistant PVC jacket.

Technical Specifications

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
AWG Size:	18

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
FRPO - Flame Retardant Polyolefin	0.128 in	0.041 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	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	0.036 in	20	7x28 mm
Braid	2	TC - Tinned Copper		55 %				

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.388 in	0.053 in

Construction and Dimensions

Stranding

Diameter
0.246 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.9 Ohm/1000ft	2.9 Ohm/1000ft

Capacitance

Nom. Mutual Capacitance
15.3 pF/ft

Inductance

Nominal Inductance

0.15 µH/ft

Impedance

Nominal Characteristic Impedance

100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.41 dB/100ft
10 MHz	1.33 dB/100ft
50 MHz	2.97 dB/100ft
100 MHz	4.2 dB/100ft
200 MHz	5.95 dB/100ft
400 MHz	7.52 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.58 ns/ft	64.5 %

High Freq

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

Voltage

UL Voltage Rating

600V RMS (NEC Type TC)

Electrical Characteristics Notes: Mutual Capacitance: 15.3 pF/ft

Temperature Range

UL Temp Rating:	75°C Dry
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	61 lbs/1000ft
Max Recommended Pulling Tension:	90 lbs
Min Bend Radius/Minor Axis:	4 in

Standards

NEC/(UL) Specification:	CMG, PLTC, ITC, TC
CEC/C(UL) Specification:	CMG

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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT1, FT4
UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1, FT4

Part Number

Plenum (Y/N):	No
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Variants

Item #	Color	Footnote
3073F C551000	BLUE, CAIRO	C
3073F C555000	BLUE, CAIRO	C N

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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