



Part Number: 3074F

600V Twinax, (1 pr) 18 AWG (7x26) TC, FRPO/PVC,
Foil+TC Braid Shld, CMG, TC

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), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.046 in	1
Total Number of Conductors:				2

Insulation:

Material	Nominal Diameter
FRPO - Flame Retardant Polyolefin	0.164 in

Color Chart 1:

Number	Color
1	Natural
2	Blue

Stranding:

Diameter
0.328 mm

Outershield 1:

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	0.038 mm	20	7x28 mm
Braid	2	TC - Tinned Copper		55 %				

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.46 in

Print Legend:	BELDEN DATATRAY(R) 3074F E64067 1PR18 SHIELDED (UL) 600V 75C DRY SUN RES TYPE TC OR PLTC OR ITC OR CMG OR C(UL) CMG (2 FT 7 DIGIT SEQUENTIAL NUMBER) FEET
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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

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	64.5 %

High Freq:

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

Inductance:

Nominal Inductance
0.18 μ H/ft

Voltage:

UL Voltage Rating
600 V RMS (NEC Type TC)

Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	93 lbs

Safety

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

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.5 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification

MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	CPE Jacket Optional.
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Product Variants

Part Number	Color	Put-Up Type	Length
3074F C551000	BLUE, CAIRO	Reel	1000 ft
3074F C552500	BLUE, CAIRO	Reel	2500 ft
3074F C555000	BLUE, CAIRO	Reel	5000 ft
3074F C55500	BLUE, CAIRO	Reel	500 ft

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