



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			
3074F C555000	BLUE, CAIRO	Reel	5000 ft
3074F C55500	BLUE, CAIRO	Reel	500 ft

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