

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

## 3074F Twinax - DataTray® 600V Twinaxial Cable

For more Information  
please call

1-800-Belden1



### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	TC - Tinned Copper	.046

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FRPO - Flame Retardant Polyolefin	.164

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	55

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	7x28	TC - Tinned Copper

Outer Shield Drain Wire Diameter: .038

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.460 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Natural
2	Blue

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C Dry

Bulk Cable Weight: 89.600 lbs/1000 ft.

Max. Recommended Pulling Tension: 93 lbs.

Min. Bend Radius/Minor Axis: 4.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

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EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT1, FT4

#### Suitability

Sunlight Resistance:	Yes
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Surface Printing (Overall)

#### Electrical Characteristics (Overall)

##### Nominal Input Impedance:

Freq. (MHz)	Impedance (Ohm)
1.000	124.000

##### Nom. Inductance:

Inductance (μH/ft)
.18

##### Nom. Mutual Capacitance:

Capacitance (pF/ft)
12.3

##### Nominal Velocity of Propagation:

VP (%)
64.5

##### Nominal Delay:

Delay (ns/ft)
1.58

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.9

##### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.83

##### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.34
10	1.07
50	2.39
100	3.38
200	4.78
400	6.76

##### Max. Operating Voltage - UL:

Voltage
600 V RMS (NEC Type TC)

#### Notes (Overall)

Notes: CPE Jacket Optional.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3074F C551000	1,000 FT	118.000 LB	BLUE, CAIRO	C	#18 FSPR FRPP SH PVC
3074F C552500	2,500 FT	300.000 LB	BLUE, CAIRO	C	#18 FSPR FRPP SH PVC
3074F C55500	500 FT	62.500 LB	BLUE, CAIRO	C	#18 FSPR FRPP SH PVC
3074F C555000	5,000 FT	620.000 LB	BLUE, CAIRO	C N	#18 FS PR FRPP SH PVC

##### Notes:

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C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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