

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

For more Information  
please call

1-800-Belden1

**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. (mm)
1	18	7x26	TC - Tinned Copper	1.1684

Total Number of Conductors: 2

**Insulation****Insulation Material:**

Insulation Material	Dia. (mm)
FRPO - Flame Retardant Polyolefin	4.1656

**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: 11.684 mm

**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:	133.343 Kg/Km
Max. Recommended Pulling Tension:	413.683 N
Min. Bend Radius/Minor Axis:	114.300 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, PLTC, ITC, TC
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
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/m)
0.59058

### Nom. Mutual Capacitance:

Capacitance (pF/m)
40.3563

### Nominal Velocity of Propagation:

VP (%)
64.5

### Nominal Delay:

Delay (ns/m)
5.18398

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
22.6389

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
9.28523

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.11554
10	3.51067
50	7.84159

## METRIC MEASUREMENT VERSION

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

100	11.0898
200	15.6832
400	22.1796

**Max. Operating Voltage - UL:**

<b>Voltage</b>
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	305 MT	53.524 KG	BLUE, CAIRO	C	#18 FSPR FRPP SH PVC
3074F C552500	762 MT	136.078 KG	BLUE, CAIRO	C	#18 FSPR FRPP SH PVC
3074F C55500	152 MT	28.350 KG	BLUE, CAIRO	C	#18 FSPR FRPP SH PVC
3074F C555000	1,524 MT	281.229 KG	BLUE, CAIRO	C N	#18 FS PR FRPP SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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

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