

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

Surface Printing:	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 (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

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Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.11554
10	3.51067
50	7.84159
100	11.0898
200	15.6832
400	22.1796

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	104.000 LB	BLUE, CAIRO	C	BRAID #18 FSPR FRPP SH PVC
3074F C552500	2,500 FT	265.000 LB	BLUE, CAIRO	C	BRAID #18 FSPR FRPP SH PVC
3074F C55500	500 FT	55.500 LB	BLUE, CAIRO	C	BRAID #18 FSPR FRPP SH PVC
3074F C555000	5,000 FT	550.000 LB	BLUE, CAIRO	C N	BRAID #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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