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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

## METRIC MEASUREMENT VERSION

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

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
MIL 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
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	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:

## METRIC MEASUREMENT VERSION

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

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

Revision Number: 1    Revision Date: 12-12-2008

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