

## 3072F 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	2.4384

**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 Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 8.230 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	Natural
2	Blue

**Pair Lay Length & Direction:**

Lay Length (mm)
44.450

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	75°C Dry
Bulk Cable Weight:	71.434 Kg/Km
Max. Recommended Pulling Tension:	378.097 N

## 3072F Twinax - DataTray® 600V Twinaxial Cable

Min. Bend Radius/Minor Axis:	82.550 mm
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## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CMG, ITC, PLTC, 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
PMSHA Specification:	P-MSHA SC-182/7

## Flame Test

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202

## Suitability

Sunlight Resistance:	Yes
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)
78.000

## Nom. Inductance:

Inductance (µH/m)
0.39372

## Nom. Mutual Capacitance:

Capacitance (pF/m)
63.9795

## 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)
10.4992

## Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)
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## METRIC MEASUREMENT VERSION

## 3072F Twinax - DataTray® 600V Twinaxial Cable

1	1.70612
10	6.49638
50	12.4022
100	17.5533
200	24.8372
400	35.1067

## Max. Operating Voltage - UL:

Voltage
600 V RMS (NEC Type TC)
300 V RMS (NEC Type PLTC)
300 V RMS (NEC Type CMG)

## Notes (Overall)

**Notes:** For CPE jacketed version order Part No. YM45044.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3072F C551000	1,000 FT	69.000 LB	BLUE, CAIRO	C	#18 FS PR FRPP SH PVC
3072F C5510000	10,000 FT	710.000 LB	BLUE, CAIRO	C N	#18 FS PR FRPP SH PVC
3072F C55250	250 FT	17.500 LB	BLUE, CAIRO	C	#18 FS PR FRPP SH PVC
3072F C55500	500 FT	35.000 LB	BLUE, CAIRO	C N	#18 FS PR FRPP SH PVC
3072F C555000	5,000 FT	345.000 LB	BLUE, CAIRO	C	#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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