

3072F Twinax - DataTray® 600V Twinaxial Cable

  	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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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:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	18
Stranding	7x26
Conductor Diameter	.046 in.
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	FRPO - Flame Retardant Polyolefin
Insulation Diameter	.096 in.

PAIR:

Pair Diameter	.192 in.
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Pair Color Code Chart :

Number	Color
1	Natural
2	Blue

OUTER SHIELD:

Outer Shield Trade Name	Beldfoil®
Outer Shield Type	Tape/Braid
Outer Shield Material :	

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

Outer Shield % Coverage	100 %
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OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	20
Outer Shield Drain Wire Stranding	7x28

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Outer Shield Drain Wire Diameter	.038 in.
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.324 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +75°C
UL Temperature Rating	75°C Dry
Bulk Cable Weight	48 lbs/1000 ft.
Max. Recommended Pulling Tension	85 lbs.
Min. Bend Radius (Install)	3.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG, PLTC, ITC, TC
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
PMSHA Specification	P-MSHA-C-7K-1827

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)	N
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ELECTRICAL CHARACTERISTICS:

Nominal Input Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nominal Input Impedance (Ohms)
	1			78

Nom. Inductance	.12 µH/ft
Nom. Mutual Capacitance @ 1 KHz	19.5 pF/ft
Nominal Velocity of Propagation	64.5 %
Nominal Delay	1.58 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.9 Ohms/1000 ft

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Nominal Outer Shield DC Resistance 3.2 Ohms/1000 ft

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.52
	10			1.98
	50			3.78
	100			5.35
	200			7.57
	400			10.7

Max. Operating Voltage - UL 600 V RMS (NEC Type TC)

NOTES:

Notes For CPE jacketed version order Part No. YM45044.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3072F C551000	#18 FS PR FRPP SH PVC	1000	69	BLUE, CAIRO	C
3072F C5510000	#18 FS PR FRPP SH PVC	10000	710	BLUE, CAIRO	C N
3072F C55250	#18 FS PR FRPP SH PVC	250	17.5	BLUE, CAIRO	C
3072F C552500	#18 FS PR FRPP SH PVC	2500	170	BLUE, CAIRO	C
3072F C55500	#18 FS PR FRPP SH PVC	500	35	BLUE, CAIRO	C N
3072F C555000	#18 FS PR FRPP SH PVC	5000	345	BLUE, CAIRO	C

C = CRATE REEL PUT-UP.

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

Revision Number: 1 Revision Date: 10-21-2005

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