

3072F Twinax - DataTray® 600V Twinaxial Cable

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|--|--|---|
| | | <p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><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. |
|---------------|----------|

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 % |
|-------------------------|-------|

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 |
|-----------------------|--------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .324 in. |
|--------------------------|----------|

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 |
|---------------------|-----|

PLENUM/NON-PLENUM:

| | |
|--------------|---|
| Plenum (Y/N) | N |
|--------------|---|

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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