

## 7201A Multi-Conductor - 300V Flex Data Cables



For more Information  
please call

1-800-Belden1

**Description:**

24 AWG stranded (41x40) bare copper conductors, twisted pairs, foam polyethylene insulation with skin, overall Beldfoil® (100% coverage), tinned copper braid shield (85% coverage), oil-resistant PVC jacket.

**Usage (Overall)**

Suitable Applications: Flex Data, RS232, RS485

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2       | 24  | 41x40     | BC - Bare Copper   |

Total Number of Conductors: 4

**Insulation**

Insulation Material:

| Insulation Material     |
|-------------------------|
| FPE - Foam Polyethylene |
| PE - Polyethylene       |

Insulation Resistance: 6.1 Megohms/1000 ft. minimum

**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           | 85           |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | 41x40     | TC - Tinned Copper            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Cabling Color Code Chart:

| Number | Color                       |
|--------|-----------------------------|
| 1      | White/Blue & Blue/White     |
| 2      | White/Orange & Orange/White |

Overall Nominal Diameter: 0.322 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 43.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 68 lbs.

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|                                        |           |
|----------------------------------------|-----------|
| Min. Bend Radius/Minor Axis:           | 3.200 in. |
| Min. Bend Radius (Continuous Flexing): | 4.500 in. |
| Flex Cycle Rating:                     | 1 Million |

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                  |
|---------------------------------------|------------------|
| NEC/(UL) Specification:               | CM               |
| CEC/C(UL) Specification:              | CM               |
| EU Directive 2000/53/EC (ELV):        | Yes              |
| EU Directive 2002/95/EC (RoHS):       | Yes              |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005       |
| 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              |
| Other Specification:                  | RS Type: 232/485 |

## Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

## Suitability

|                 |     |
|-----------------|-----|
| Oil Resistance: | Yes |
|-----------------|-----|

## Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

## Max. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 15                  |

## Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 72     |

## Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

|                                 |           |
|---------------------------------|-----------|
| Differential Impedance @ 1 MHz: | 120 +/-15 |
|---------------------------------|-----------|

## Notes (Overall)

**Notes:** 1 million flex cycles based on proper installation techniques in a C-track cable guide.

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color     | Notes | Item Desc                  |
|---------------|----------|-------------|-----------|-------|----------------------------|
| 7201A X4P1000 | 1,000 FT | 60.000 LB   | GREEN X4P | C     | 2 PR #24 FHDPE/HDPE SH PVC |
| 7201A X4P500  | 500 FT   | 31.000 LB   | GREEN X4P | C     | 2 PR #24 FHDPE/HDPE SH PVC |

## Notes:

C = CRATE REEL PUT-UP.

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