

## 1401A Multi-Conductor - Small Computer System Interface



For more Information  
please call

1-800-Belden1



### General Description:

SCSI, 28 AWG stranded (7x36) TC conductors, non-plenum, flame-retardant polyolefin insulation, polypropylene buffer layer, twisted pairs, overall Beldfoil® shield + TC braid shield (85% coverage), see color code chart (below), light gray PVC jacket.

### Usage (Overall)

Suitable Applications: SCSI II

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 50           | 25      | 28  | 7x36      | TC - Tinned Copper |

Total Number of Conductors: 50

#### Insulation

Insulation Material:

| Insulation Material               | Wall Thickness (in.) |
|-----------------------------------|----------------------|
| FRPO - Flame Retardant Polyolefin | 0.010                |

#### 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 Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.029                     |

#### Overall Cable

Overall Cabling Separator Material: Foamed PP Binder Tape

Overall Nominal Diameter: 0.420 in.

#### Pair

Pair Color Code Chart:

| Number | Color                         |
|--------|-------------------------------|
| 1      | White/Blue & Blue/White       |
| 2      | White/Orange & Orange/White   |
| 3      | White/Green & Green/White     |
| 4      | White/Brown & Brown/White     |
| 5      | White/Gray & Gray/White       |
| 6      | Red/Blue & Blue/Red           |
| 7      | Red/Orange & Orange/Red       |
| 8      | Red/Green & Green/Red         |
| 9      | Red/Brown & Brown/Red         |
| 10     | Red/Gray & Gray/Red           |
| 11     | Black/Blue & Blue/Black       |
| 12     | Black/Orange & Orange/Black   |
| 13     | Black/Green & Green/Black     |
| 14     | Black/Brown & Brown/Black     |
| 15     | Black/Gray & Gray/Black       |
| 16     | Yellow/Blue & Blue/Yellow     |
| 17     | Yellow/Orange & Orange/Yellow |
| 18     | Yellow/Green & Green/Yellow   |
| 19     | Yellow/Brown & Brown/Yellow   |
| 20     | Yellow/Gray & Gray/Yellow     |

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|    |                               |
|----|-------------------------------|
| 21 | Purple/Blue & Blue/Purple     |
| 22 | Purple/Orange & Orange/Purple |
| 23 | Purple/Green & Green/Purple   |
| 24 | Purple/Brown & Brown/Purple   |
| 25 | Purple/Gray & Gray/Purple     |

### Mechanical Characteristics (Overall)

|  |                 |
|--|-----------------|
| <b>Bulk Cable Weight:</b>                | 93 lbs/1000 ft. |
| <b>Max. Recommended Pulling Tension:</b> | 180 lbs.        |
| <b>Min. Bend Radius/Minor Axis:</b>      | 4.250 in.       |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|  |            |
|--|------------|
| <b>NEC/(UL) Specification:</b>               | CL2, CMG   |
| <b>CEC/C(UL) Specification:</b>              | CMG        |
| <b>EU Directive 2011/65/EU (ROHS II):</b>    | Yes        |
| <b>EU CE Mark:</b>                           | Yes        |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes        |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes        |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 10/13/2005 |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes        |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes        |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes        |
| <b>MIL Order #39 (China RoHS):</b>           | Yes        |

#### Flame Test

|                        |                    |
|------------------------|--------------------|
| <b>UL Flame Test:</b>  | UL1685 FT4 Loading |
| <b>CSA Flame Test:</b> | FT4                |

#### Plenum/Non-Plenum

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

| Description      | Impedance (Ohm) | Tolerance (Ohms) |
|------------------|-----------------|------------------|
| Differential TDR | 122.000         | +38 -7           |
| Single Ended TDR | 84.000          | ± 12             |

#### Nom. Capacitance Conductor to Conductor:

|                            |
|----------------------------|
| <b>Capacitance (pF/ft)</b> |
| 12.7                       |

#### Nom. Capacitance Cond. to Other Conductor & Shield:

|                            |
|----------------------------|
| <b>Capacitance (pF/ft)</b> |
| 30                         |

#### Nominal Velocity of Propagation:

|               |
|---------------|
| <b>VP (%)</b> |
| 66            |

#### Nominal Delay:

| Description  | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Delay (ns/ft) |
|--------------|-------------|-------------------|------------------|---------------|
| Pair-to-Pair |             |                   |                  | .04           |

#### Nom. Conductor DC Resistance:

|                                 |
|---------------------------------|
| <b>DCR @ 20°C (Ohm/1000 ft)</b> |
| 64.9                            |

#### Nominal Outer Shield DC Resistance:

|                                 |
|---------------------------------|
| <b>DCR @ 20°C (Ohm/1000 ft)</b> |
| 2                               |

#### Max. Attenuation:

| ()  | Freq. (MHz) | Attenuation (dB/100 ft.) |
|-----|-------------|--------------------------|
| 2.3 | 5.000       | 2.300                    |

#### Max. Operating Voltage - UL:

|                |
|----------------|
| <b>Voltage</b> |
|----------------|

## 1401A Multi-Conductor - Small Computer System Interface

300 V RMS

**Max. Recommended Current:**

**Current**

0.5 Amps per conductor @ 25°C

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color     | Notes | Item Desc             |
|---------------|----------|-------------|-----------|-------|-----------------------|
| 1401A F2V1000 | 1,000 FT | 101.000 LB  | GRAY, DEC | C     | 25 PR #28 FRPP SH PVC |
| 1401A F2V500  | 500 FT   | 51.500 LB   | GRAY, DEC | C     | 25 PR #28 FRPP SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 03-15-2016

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