

## 1503A Paired - Single-Pair Cable

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|--|--|--|
|  |  | <p style="text-align: center;"><b>For more information please call</b><br/><b>1-800-Belden1</b></p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> |
|--|--|--|

### Description:

22 AWG stranded (7x30) TC conductors, PVC insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

|                            |                    |
|----------------------------|--------------------|
| Number of Pairs            | 1                  |
| Total Number of Conductors | 2                  |
| AWG                        | 22                 |
| Stranding                  | 7x30               |
| Conductor Material         | TC - Tinned Copper |

#### INSULATION:

|                                |                          |
|--------------------------------|--------------------------|
| Insulation Material            | PVC - Polyvinyl Chloride |
| Nom. Insulation Wall Thickness | .010 in.                 |
| Lay Length                     | 1.75 in.                 |
| Twists/ft.                     | 6.86                     |

#### Pair Color Code Chart :

| Number | Color       |
|--------|-------------|
| 1      | Black & Red |

#### OUTER SHIELD:

|                                  |                              |
|----------------------------------|------------------------------|
| Outer Shield Material Trade Name | Beldfoil®                    |
| Outer Shield Type                | Tape                         |
| Outer Shield Material            | Aluminum Foil-Polyester Tape |
| Outer Shield % Coverage          | 100 %                        |

#### OUTER SHIELD DRAIN WIRE :

|  |                    |
|--|--------------------|
| Outer Shield Drain Wire AWG                | 24                 |
| Outer Shield Drain Wire Stranding          | 7x32               |
| Outer Shield Drain Wire Conductor Material | TC - Tinned Copper |

#### OUTER JACKET:

|                                     |                          |
|-------------------------------------|--------------------------|
| Outer Jacket Material               | PVC - Polyvinyl Chloride |
| Outer Jacket Nominal Wall Thickness | .020 in.                 |

#### OVERALL NOMINAL DIAMETER:

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|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .142 in. |
|--------------------------|----------|

### MECHANICAL CHARACTERISTICS:

|                                  |                   |
|----------------------------------|-------------------|
| Operating Temperature Range      | -30°C To +90°C    |
| UL Temperature Rating            | 60°C              |
| Bulk Cable Weight                | 14.3 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 25 lbs.           |
| Min. Bend Radius (Install)       | 1.5 in.           |

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification                | CM         |
| CEC/C(UL) Specification               | CM         |
| EU CE Mark (Y/N)                      | Yes        |
| EU RoHS Compliant (Y/N)               | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |

#### FLAME TEST:

|               |              |
|---------------|--------------|
| UL Flame Test | UL1666 Riser |
|---------------|--------------|

#### PLENUM/NON-PLENUM:

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

#### ELECTRICAL CHARACTERISTICS:

|   |                               |
|---|-------------------------------|
| Nom. Characteristic Impedance                   | 38 Ohms                       |
| Nom. Inductance                                 | .18 µH/ft                     |
| Nom. Capacitance Conductor to Conductor @ 1 KHz | 53 pF/ft                      |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz | 97 pF/ft                      |
| Nominal Velocity of Propagation                 | 66 %                          |
| Nominal Delay                                   | 1.5 ns/ft                     |
| Nom. Conductor DC Resistance @ 20 Deg. C        | 14.7 Ohms/1000 ft             |
| Nominal Outer Shield DC Resistance @ 20 Deg. C  | 18 Ohms/1000 ft               |
| Max. Operating Voltage - UL                     | 300 V RMS                     |
| Max. Recommended Current                        | 2.9 Amps per conductor @ 25°C |

#### PUT-UPS AND COLORS:

| Item           | Description        | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|--------------------|--------------|--------------------|--------------|-------|
| 1503A 001U1000 | 2 #22 PVC FS FRPVC | U1000        | 16                 | BROWN        |       |
| 1503A 002U1000 | 2 #22 PVC FS FRPVC | U1000        | 16                 | RED          |       |
| 1503A 003U1000 | 2 #22 PVC FS FRPVC | U1000        | 16                 | ORANGE       |       |

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|                |                       |       |    |             |  |
|----------------|-----------------------|-------|----|-------------|--|
| 1503A 004U1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | YELLOW      |  |
| 1503A 006U1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | BLUE, LIGHT |  |
| 1503A 007U1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | VIOLET      |  |
| 1503A 008U1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | GRAY        |  |
| 1503A 009U1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | WHITE       |  |
| 1503A 010U1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | BLACK       |  |
| 1503A N3UU1000 | 2 #22 PVC FS<br>FRPVC | U1000 | 16 | GREEN, MIL  |  |

Revision Number: 1      Revision Date: 07-27-2005

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### Наши контакты:

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331