

## 9505 Paired - Computer Cables for EIA RS-232 Applications



For more information please  
call

**1-800-Belden1**

See Put-ups and Colors

**Color Code Chart : No. 3 for  
Paired Cables (Belden  
Standard).pdf**

### Description:

24 AWG stranded (7x32) tinned copper conductors, twisted pairs, S-R PVC insulated, 100% Beldfoil® shield, 24 AWG stranded (7x32) tinned copper drain wire, PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

|                            |                    |
|----------------------------|--------------------|
| Number of Pairs            | 5                  |
| Total Number of Conductors | 10                 |
| AWG                        | 24                 |
| Stranding                  | 7x32               |
| Conductor Material         | TC - Tinned Copper |

#### INSULATION:

|                     |   |
|---------------------|---|
| Insulation Material | S-R PVC - Semi-Rigid Polyvinyl Chloride |
|---------------------|---|

#### PAIR:

Pair Color Code Chart :

| Number | Color         | Number | Color          |
|--------|---------------|--------|----------------|
| 1      | Black & Red   | 4      | Black & Blue   |
| 2      | Black & White | 5      | Black & Yellow |
| 3      | Black & Green |        |                |

#### 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:

## 9505 Paired - Computer Cables for EIA RS-232 Applications

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

### OVERALL NOMINAL DIAMETER:

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .289 in. |
|--------------------------|----------|

### MECHANICAL CHARACTERISTICS:

|                                  |                   |
|----------------------------------|-------------------|
| Operating Temperature Range      | -30°C To +80°C    |
| Temperature Rating               | 80°C              |
| Bulk Cable Weight                | 41.2 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 55 lbs.           |
| Min. Bend Radius (Install)       | 3 in.             |

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

|                         |         |
|-------------------------|---------|
| NEC/(UL) Specification  | CMG     |
| CEC/C(UL) Specification | CMG     |
| AWM Specification       | 2464    |
| CSA Specification       | AWM I A |

#### FLAME TEST:

|                  |                      |
|------------------|----------------------|
| UL Flame Test    | UL1581 Vertical Tray |
| C(UL) Flame Test | FT4                  |

#### PLENUM/NON-PLENUM:

|               |              |
|---------------|--------------|
| Plenum (Y/N)  | N            |
| Plenum Number | 89505, 82505 |

### ELECTRICAL CHARACTERISTICS:

|   |                               |
|---|-------------------------------|
| Nom. Characteristic Impedance                   | 75 Ohms                       |
| Nom. Capacitance Conductor to Conductor @ 1 KHz | 30 pF/ft                      |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz | 50 pF/ft                      |
| Nominal Velocity of Propagation                 | 60 %                          |
| Nom. Conductor DC Resistance @ 20 Deg. C        | 24 Ohms/1000 ft               |
| Nominal Outer Shield DC Resistance @ 20 Deg. C  | 17 Ohms/1000 ft               |
| Max. Operating Voltage - UL                     | 300 V RMS                     |
| Other Maximum Continuous Currents               | 1.5 Amps per conductor @ 25°C |

### PUT-UPS AND COLORS:

| Item         | Description            | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|--------------|------------------------|--------------|--------------------|--------------|-------|
| 9505 060100  | 5 PR #24 PVC FS<br>PVC | 100          | 4.8                | CHROME       |       |
| 9505 0601000 | 5 PR #24 PVC FS<br>PVC | 1000         | 44                 | CHROME       | C     |
| 9505 060500  | 5 PR #24 PVC FS<br>PVC | 500          | 22.5               | CHROME       |       |

---

## **9505 Paired - Computer Cables for EIA RS-232 Applications**

|               |                        |       |    |        |  |
|---------------|------------------------|-------|----|--------|--|
| 9505 060U1000 | 5 PR #24 PVC FS<br>PVC | U1000 | 43 | CHROME |  |
| 9505 060U500  | 5 PR #24 PVC FS<br>PVC | U500  | 22 | CHROME |  |

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 10-22-2003

---

© 2003 Belden Wire & Cable Company  
All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.