



## 9509 Paired - Computer Cable for EIA RS-232 Applications

|                                                                                                                                                                      |                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>For more information please call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Related Documents : No. 3 for Paired Cables (Belden Standard).pdf</b></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Description:

24 AWG stranded (7x32) TC conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain Wire (continued), PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

|                            |                    |
|----------------------------|--------------------|
| Number of Pairs            | 9                  |
| Total Number of Conductors | 18                 |
| AWG                        | 24                 |
| Stranding                  | 7x32               |
| Conductor Material         | TC - Tinned Copper |

#### INSULATION:

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

#### Pair Color Code Chart :

| Number | Color          | Number | Color          |
|--------|----------------|--------|----------------|
| 1      | Black & Red    | 6      | Black & Brown  |
| 2      | Black & White  | 7      | Black & Orange |
| 3      | Black & Green  | 8      | Red & White    |
| 4      | Black & Blue   | 9      | Red & Green    |
| 5      | Black & Yellow |        |                |

#### OUTER SHIELD:

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

#### OUTER SHIELD DRAIN WIRE :

|                                   |      |
|-----------------------------------|------|
| Outer Shield Drain Wire AWG       | 24   |
| Outer Shield Drain Wire Stranding | 7x32 |



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|                                            |                    |
|--------------------------------------------|--------------------|
| Outer Shield Drain Wire Conductor Material | TC - Tinned Copper |
|--------------------------------------------|--------------------|

### OUTER JACKET:

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

### OVERALL NOMINAL DIAMETER:

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .334 in. |
|--------------------------|----------|

### MECHANICAL CHARACTERISTICS:

|                                  |                          |
|----------------------------------|--------------------------|
| Operating Temperature Range      | -30°C To +80°C           |
| Non-UL Temperature Rating        | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight                | 62.2 lbs/1000 ft.        |
| Max. Recommended Pulling Tension | 99 lbs.                  |
| Min. Bend Radius (Install)       | 3.5 in.                  |

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification                | CMG                        |
| CEC/C(UL) Specification               | CMG                        |
| AWM Specification                     | UL Style 2464 (300 V 80°C) |
| CSA Specification                     | AWM I A                    |
| 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    | UL1685 FT4 Loading |
| C(UL) Flame Test | FT4                |

### PLENUM/NON-PLENUM:

|               |       |
|---------------|-------|
| Plenum (Y/N)  | N     |
| Plenum Number | 82509 |

### 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  | 16.5 Ohms/1000 ft             |
| Max. Operating Voltage - UL                     | 300 V RMS (UL AWM Style 2464) |
| Max. Recommended Current                        | 1.1 Amps per conductor @ 25°C |



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### PUT-UPS AND COLORS:

| Item         | Description            | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|--------------|------------------------|--------------|--------------------|--------------|-------|
| 9509 060100  | 9 PR #24 PVC FS<br>PVC | 100          | 6.9                | CHROME       |       |
| 9509 0601000 | 9 PR #24 PVC FS<br>PVC | 1000         | 67                 | CHROME       | C     |
| 9509 060500  | 9 PR #24 PVC FS<br>PVC | 500          | 33.5               | CHROME       | C     |

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 07-19-2005

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