

## 9506 Multi-Conductor - Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1

**General 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 (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 6       | 24  | 7x32      | TC - Tinned Copper |

**Total Number of Conductors:** 12

**Insulation****Insulation Material:**

| Insulation Material                     | Wall Thickness (mm) |
|---|---------------------|
| S-R PVC - Semi-Rigid Polyvinyl Chloride | 0.279               |

**Outer Shield****Outer Shield Material:**

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

**Outer Shield Drain Wire AWG:**

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

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.813                    |

**Overall Cable**

**Overall Nominal Diameter:** 7.341 mm

**Pair****Pair Color Code Chart:**

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

**Mechanical Characteristics (Overall)**

|  |                          |
|--|--------------------------|
| <b>Operating Temperature Range:</b>      | -30°C To +80°C           |
| <b>Non-UL Temperature Rating:</b>        | 80°C (UL AWM Style 2464) |
| <b>Bulk Cable Weight:</b>                | 65.481 Kg/Km             |
| <b>Max. Recommended Pulling Tension:</b> | 293.581 N                |
| <b>Min. Bend Radius/Minor Axis:</b>      | 76.200 mm                |

## 9506 Multi-Conductor - Computer Cable for EIA RS-232 Applications

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CMG                        |
| CEC/C(UL) Specification:              | CMG                        |
| AWM Specification:                    | UL Style 2464 (300 V 80°C) |
| CSA Specification:                    | AWM I A                    |
| EU Directive 2011/65/EU (ROHS II):    | Yes                        |
| EU CE Mark:                           | Yes                        |
| EU Directive 2000/53/EC (ELV):        | Yes                        |
| EU Directive 2002/95/EC (RoHS):       | Yes                        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005                 |
| 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                        |

## Flame Test

|                 |                    |
|-----------------|--------------------|
| UL Flame Test:  | UL1685 FT4 Loading |
| CSA Flame Test: | FT4                |

## Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 82506 |

## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 98.43              |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 164.05             |

## Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 60     |

## Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 78.744              |

## Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 52.496              |

## Max. Operating Voltage - UL:

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

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 1.5 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

## METRIC MEASUREMENT VERSION

## 9506 Multi-Conductor - Computer Cable for EIA RS-232 Applications

|               |          |            |        |   |                     |
|---------------|----------|------------|--------|---|---------------------|
| 9506 060U1000 | 1,000 FT | 46.000 LB  | CHROME |   | 6 PR #24 PVC FS PVC |
| 9506 060U500  | 500 FT   | 23.500 LB  | CHROME |   | 6 PR #24 PVC FS PVC |
| 9506 060100   | 100 FT   | 5.100 LB   | CHROME |   | 6 PR #24 PVC FS PVC |
| 9506 0601000  | 1,000 FT | 47.000 LB  | CHROME | C | 6 PR #24 PVC FS PVC |
| 9506 060500   | 500 FT   | 25.000 LB  | CHROME | C | 6 PR #24 PVC FS PVC |
| 9506 0605000  | 5,000 FT | 245.000 LB | CHROME | C | 6 PR #24 PVC FS PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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