

## 9538 Multi-Conductor - Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) tinned copper conductors, conductors cabled, semi-rigid PVC insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 8            | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 8

**Insulation**

Insulation Material:

| Insulation Material      | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | .010                 |

**Outer Shield**

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .032                      |

**Overall Cable**

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 0.224 in.

**Mechanical Characteristics (Overall)**

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -30°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:                | 31 lbs/1000 ft.          |
| Max. Recommended Pulling Tension: | 44 lbs.                  |
| Min. Bend Radius/Minor Axis:      | 2.250 in.                |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                          |                            |
|--------------------------|----------------------------|
| NEC/(UL) Specification:  | CMG                        |
| NEC Articles:            | 800                        |
| CEC/C(UL) Specification: | CMG                        |
| AWM Specification:       | UL Style 2464 (300 V 80°C) |

## 9538 Multi-Conductor - Computer Cable for EIA RS-232 Applications

|                                       |            |
|---------------------------------------|------------|
| 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                |

## Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

33

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

Capacitance (pF/ft)

65

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

25

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

18

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

| Description          | Current                                |
|----------------------|----------------------------------------|
| 10C Temperature Rise | 1.75 Amps per conductor @ 25°C ambient |

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc        |
|---------------|----------|-------------|--------|-------|------------------|
| 9538 060U1000 | 1,000 FT | 33.000 LB   | CHROME |       | 8 #24 PVC FS PVC |
| 9538 060U500  | 500 FT   | 17.000 LB   | CHROME |       | 8 #24 PVC FS PVC |
| 9538 060100   | 100 FT   | 3.900 LB    | CHROME |       | 8 #24 PVC FS PVC |
| 9538 0601000  | 1,000 FT | 34.000 LB   | CHROME | C     | 8 #24 PVC FS PVC |
| 9538 060500   | 500 FT   | 17.000 LB   | CHROME | C     | 8 #24 PVC FS PVC |
| 9538 0605000  | 5,000 FT | 165.000 LB  | CHROME | C     | 8 #24 PVC FS PVC |

## Notes:

C = CRATE REEL PUT-UP.

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