

## 89505 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, plenum, FEP insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 5       | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 10

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

| Insulation Material                  | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.1524              |

**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 (mm) |
|--------------------------------------|--------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.3556                   |

**Overall Cable**

Overall Nominal Diameter: 5.004 mm

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

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

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 271.340 N

Min. Bend Radius/Minor Axis: 50.800 mm

## 89505 Multi-Conductor - Computer Cable for EIA RS-232 Applications

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| CEC/C(UL) Specification:              | CMP        |
| 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:  | NFPA 262 |
| CSA Flame Test: | FT6      |

## Plenum/Non-Plenum

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 9505 |

## Electrical Characteristics (Overall)

## Nom. Inductance:

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.55777           |

## Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 68.901             |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 131.24             |

## Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 79.0721             |

## Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 49.215              |

## 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           |
|---------------|--------|-------------|-------|-------|---------------------|
| 89505 002100  | 30 MT  | 2.223 KG    | RED   | C     | 5 PR #24 FEP FS FEP |
| 89505 0021000 | 305 MT | 14.969 KG   | RED   | C     | 5 PR #24 FEP FS FEP |

## Notes:

## METRIC MEASUREMENT VERSION

### 89505 Multi-Conductor - Computer Cable for EIA RS-232 Applications

C = CRATE REEL PUT-UP.

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