

## 8302 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1



### Description:

22 AWG stranded (7x30) tinned copper conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2       | 22  | 7x30      | TC - Tinned Copper |

#### Insulation

Insulation Material:

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

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1       | Beldfoil®               | Tape  | Aluminum Foil-Polyester Tape | 100          |
| 2       |                         | Braid | TC - Tinned Copper           | 65           |

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cabling

Overall Nominal Diameter: 7.112 mm

#### Pair

Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |

Pair Lay Length & Direction:

| Lay Length (mm) | Twists/ft. (twist/m) |
|-----------------|----------------------|
| 20.31992        | 45.934               |

### Mechanical Characteristics (Overall)

|  |                          |
|--|--------------------------|
| Operating Temperature Range:           | -30°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:                     | 58.040 Kg/Km             |
| Min. Bend Radius (Install)/Minor Axis: | 69.850 mm                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                          |     |
|--------------------------|-----|
| NEC/(UL) Specification:  | CMG |
| CEC/C(UL) Specification: | CMG |

## 8302 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

|  |                            |
|--|----------------------------|
| <b>AWM Specification:</b>                    | UL Style 2464 (300 V 80°C) |
| <b>EU CE Mark:</b>                           | Yes                        |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes                        |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes                        |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 10/01/2005                 |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes                        |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes                        |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes                        |
| <b>MII Order #39 (China RoHS):</b>           | Yes                        |

### Flame Test

|                          |     |
|--------------------------|-----|
| <b>C(UL) Flame Test:</b> | FT4 |
|--------------------------|-----|

### Plenum/Non-Plenum

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

**Impedance (Ohm)**

70

### Nom. Inductance:

**Inductance (µH/m)**

0.574175

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**

131.24

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

**Capacitance (pF/m)**

236.232

### Nominal Velocity of Propagation:

**VP (%)**

60

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**

49.215

### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/km)**

18.7017

### Max. Operating Voltage - UL:

**Voltage**

300 V RMS (UL AWM Style 2464)

### Max. Recommended Current:

**Current**

2.4 Amps per conductor @ 25°C

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #      | Putup | Ship Weight | Color  | Notes | Item Desc             |
|-------------|-------|-------------|--------|-------|-----------------------|
| 8302 060100 | 30 MT | 2.087 KG    | CHROME |       | 2 PR #22 PVC SHLD PVC |

## METRIC MEASUREMENT VERSION

### 8302 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

|              |          |           |        |   |                       |
|--------------|----------|-----------|--------|---|-----------------------|
| 8302 0601000 | 305 MT   | 19.051 KG | CHROME | C | 2 PR #22 PVC SHLD PVC |
| 8302 060500  | 152 MT   | 8.618 KG  | CHROME | C | 2 PR #22 PVC SHLD PVC |
| 8302 0605000 | 1,524 MT | 90.719 KG | CHROME |   | 2 PR #22 PVC SHLD PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 03-17-2009

© 2011 Belden, Inc  
All Rights Reserved.

Although 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.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.