Introduction

Belden® multi-conductor cables are manufactured in a wide variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions. These cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source.

Applications for multi-conductor cables include computers, communications, instrumentation, sound, control, audio, and data transmission. Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crossfalk

To assist you in selecting the proper cable for your application, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable product in this section.

Most of our multi-conductor cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Multi-Conductor Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

Selection Guide

Shielded Multi-Conductor Computer Cables for RS-232 Applications

| | | | | Cable | Series* | | |
|--------------|----------------|--------|------|-------|----------|------|--|
| Specifica | ntions | | 9925 | 9608 | 9533 | 9939 | |
| Conductor Si | | 28 | | | | | |
| (AWG) | | 24 | 1 | 1 | 1 | | |
| | | 22 | | | - | 1 | |
| | | 20 | | | | | |
| | | 18 | | | | | |
| | Pac | je No. | 4.18 | 4.17 | 4.11 | 4.19 | |
| Insulation: | S-R PVC | , | | 1 | 1 | 1 | |
| | Polyethylene | | | | - | - | |
| | Polypropylene | 9 | | | | | |
| | Datalene® † | - | 1 | | | | |
| Shield: | Overall Foil | | - | | 1 | | |
| | Drain Wire | | 1 | | 1 | | |
| | Overall Foil/B | raid | 1 | 1 | - | 1 | |
| | Braid Coveraç | | 65% | 65% | | 65% | |
| Drain Wire O | | ,- | Yes | No | Yes | No | |
| No. of Cond. | | 1 | | - 110 | | | |
| | | 2 | | | | | |
| | | 3 | 1 | 1 | 1 | 1 | |
| | | 4 | 1 | / | 1 | 1 | |
| | | 5 | 1 | / | 1 | 1 | |
| | | 6 | 1 | 1 | / | 1 | |
| | | 7 | 1 | / | 1 | 1 | |
| | | 8 | 1 | / | 1 | 1 | |
| | | 9 | 1 | / | 1 | 1 | |
| | | 10 | 1 | 1 | / | 1 | |
| | | 11 | • | • | • | • | |
| | | 12 | | | | | |
| | | 13 | | | | | |
| | | 15 | 1 | 1 | / | 1 | |
| | | 17 | | | • | • | |
| | | 18 | | | | | |
| | | 19 | | | | | |
| | | 20 | | | / | | |
| | | 25 | 1 | 1 | ✓ | 1 | |
| | | 27 | • | • | • | • | |
| | | 30 | | | 1 | | |
| | | 31 | | | _ | | |
| | | 37 | 1 | 1 | | 1 | |
| | | 40 | , | | 1 | * | |
| | | 50 | | 1 | 1 | 1 | |
| | | J 00 | 12.0 | 30.0 | 30.0 | | |

^{*}All cables are UL-listed.



^{**}Capacitance may vary on some cables.

[†] Foam high density polyethylene.

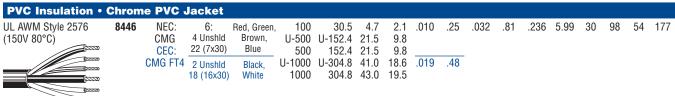
Unshielded

Audio, Control, Communication and Instrumentation Cables Non-Plenum

| Description | Part No. | UL NEC/ C(UL) CEC | No. of | Color Code | Standard | Lengths | | ndard Neight | | ation kness | | ket kness | Nomi | nal OD |
|----------------------------------------------------------------------|----------|----------------------|-----------|------------------------------------------|--------------------|------------------------|------------------------|------------------------|------|----------------|------|--------------|------|--------|
| Description | | Type | Cond. | | Ft. | m | Lbs. | kg | Inch | mm | Inch | mm | Inch | mm |
| 14 AWG Stranded (19x27) Tinned Copper Conductors • Conductors Cabled | | | | | | | | | | | | | | |
| PVC Insulation • Chrome PVC Jacket | | | | | | | | | | | | | | |
| 600V RMS 80°C VW-1 | 8627 | _ | 4 | See Chart 2 (Tech Info Section) | 100 500 1000 | 30.5 152.4 304.8 | 13.8 76.5 149.0 | 6.3 34.7 67.6 | .045 | 1.14 | .045 | 1.14 | .490 | 12.45 |
| | 9623 | _ | 5 | See Chart 2 (Tech Info Section) | 100 500 1000 | 30.5 152.4 304.8 | 18.1 99.5 197.0 | 8.3 45.1 89.4 | .045 | 1.14 | .060 | 1.52 | .573 | 14.55 |
| | 8628 | _ | 7 | See Chart 2 (Tech Info Section) | 100 500 1000 | 30.5 152.4 304.8 | 23.9 128.0 255.0 | 11.0 58.1 115.8 | .045 | 1.14 | .060 | 1.52 | .623 | 15.82 |
| | 8629 | _ | 12 | See Chart 2 (Tech Info Section) | 100 500 1000 | 30.5 152.4 304.8 | 44.6 222.0 454.0 | 20.2 100.8 206.1 | .045 | 1.14 | .065 | 1.65 | .824 | 20.93 |

| | . UL | UL NEC/ | No. | | Standard Lengths | | Standard Unit Weight | | Insulation Thickness | | Jacket Thickness | | Nominal OD | | Nominal Capacitance | | | |
|-------------|-------------|-------------------|-------------|---------------|------------------|---|-------------------------|--------------|-------------------------|----|---------------------|----|------------|----|---------------------|----------|------------|----------|
| Description | Part No. | C(UL) CEC Type | of Cond. | Color Code | Ft. | m | Lbs. | Veight kg | Inch | mm | Inch | mm | Inch | mm | pF/ Ft. | pF/ m | pF/ Ft. | pF/ m |

22 and 18 AWG Stranded (7x30 and 16x30) Tinned Copper Conductors • Conductors Cabled



20 and 16 AWG Stranded (7x28 and 19x28) Tinned Copper Conductors • Conductors Cabled

| | ` | | , | | | | | | | | | | | | | | | |
|-------------------------|--------|------------|-----------------------------|---------------------------|-------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| PVC Insulation • | Chrome | PVC | Jacket | | | | | | | | | | | | | | | |
| NEC Article 800 (90°C) | 9686 | NEC: CM | 6: 3 Unshld 20 (7x28) | Green, Blue, Purple | U-500 | U-152.4 | 32.5 | 14.7 | .012 | .30 | .032 | .81 | .295 | 7.49 | 20 | 66 | 36 | 118 |
| | | | 3 Unshld 16 (19x28) | Black, Red, Yellow | | | | | .013 | .33 | | | | | 30 | 98 | 54 | 177 |



^{*}Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.