

## 89855 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG solid TC conductors, plenum, solid FEP insulation, twisted pairs, overall Beldfoil (100% coverage)  
+ TC braid shield (55% coverage) plus polyester tape, 22 AWG solid TC drain wire, FEP jacket.

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

AWG:

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

Total Number of Conductors: 4

**Insulation**

Insulation Material:

| Insulation Material                  | Wall Thickness (in.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | 0.016                |

**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           | 55           |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22  | Solid     | TC - Tinned Copper            |

Outer Shield Separator Material: Polyester Tape

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material                | Nom. Wall Thickness (in.) |
|--------------------------------------|---------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.016                     |

**Overall Cable**

Overall Nominal Diameter: 0.272 in.

**Pair**

Pair Color Code Chart:

| Number | Color          |
|--------|----------------|
| 1      | Red & Blue     |
| 2      | Black & Yellow |

**Mechanical Characteristics (Overall)**

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -70°C To +200°C |
| Bulk Cable Weight:                | 38 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 65 lbs.         |
| Min. Bend Radius/Minor Axis:      | 2.750 in.       |

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

|                                    |          |
|------------------------------------|----------|
| NEC(UL) Specification:             | CMP, MPP |
| 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      |

**89855 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable**

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 &amp; Cable): Yes

MIL 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: 9855

**Surface Printing (Overall)**

Surface Printing: BELDEN-E 89855 E108998 2PR22 200C SHIELDED (UL) CMP C(UL)

**Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

15.5

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

Capacitance (pF/ft)

27

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/ft)

1.46

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.9

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

.3

.4

.6

.53

1.0

.65

1.5

.78

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.2 Amps per conductor @ 25°C (10°C rise in temp)

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc           |
|---------------|----------|-------------|-------|-------|---------------------|
| 89855 0101000 | 1,000 FT | 42.000 LB   | BLACK | C     | 2 PR #22 FEP SH FEP |

Notes:

C = CRATE REEL PUT-UP.

## **89855 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable**

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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<http://moschip.ru/get-element>

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