

## 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

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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
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)
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### 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 & 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.

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