

## 89842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable



For more Information  
please call

1-800-Belden1



### General Description:

24 AWG stranded (7x32) tinned copper conductors, twisted pairs, foam FEP insulation, overall 100% Beldfoil® shield, 24 AWG stranded tinned copper drain wire, overall tinned copper braid shield (90% coverage), FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
2	24	7x32	TC - Tinned Copper

Total Number of Conductors: 4

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	0.584

#### 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	90

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.356

#### Overall Cable

Overall Nominal Diameter: 7.747 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +150°C

Bulk Cable Weight: 65.481 Kg/Km

Max. Recommended Pulling Tension: 302.478 N

Min. Bend Radius/Minor Axis: 82.550 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

METRIC MEASUREMENT VERSION

## 89842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	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:	9842

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)  
120

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
39.372

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

Capacitance (pF/m)  
72.182

### Nominal Velocity of Propagation:

VP (%)  
76

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
78.744

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
10.1711

### Max. Operating Voltage - UL:

Voltage  
300 V RMS

### Max. Recommended Current:

Current  
4 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89842 0021000	1,000 FT	49.000 LB	RED	C	2 PR #24 FFEPR SH FEP

## METRIC MEASUREMENT VERSION

### 89842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

89842 002500	500 FT	25.500 LB	RED	C	2 PR #24 FFEPR SH FEP
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**Notes:**

C = CRATE REEL PUT-UP.

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