

## 82841 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

For more Information  
please call

1-800-Belden1



### General Description:

Low cap 24 AWG stranded (7x32) TC conductors, plenum, foam FEP insulation, twisted pairs, overall Beldfoil (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, Flamarrest® jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	24	7x32	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	0.635

#### 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)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.381

#### Overall Cable

Overall Nominal Diameter: 5.182 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White

### Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 38.693 Kg/Km

Max. Recommended Pulling Tension: 203.283 N

Min. Bend Radius/Minor Axis: 57.150 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

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

EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005

## METRIC MEASUREMENT VERSION

### 82841 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

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:	9841

### 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
82841 8771000	1,000 FT	28.000 LB	NATURAL	C	1 PR #24 FFEPR SH FLRST
82841 877500	500 FT	14.500 LB	NATURAL		1 PR #24 FFEPR SH FLRST
82841 8775000	5,000 FT	135.000 LB	NATURAL		1 PR #24 FFEPR SH FLRST

#### Notes:

C = CRATE REEL PUT-UP.

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