



## 88118 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications

For more Information  
please call

1-800-Belden1



### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	18	24	7x32	TC - Tinned Copper

Total Number of Conductors: 37

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FFEP - Foam Fluorinated Ethylene Propylene	0.015

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

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

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVDF - Fluorocopolymer	0.019

#### Overall Cable

Overall Nominal Diameter: 0.482 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
13	Black/Green & Green/Black
14	Black/Brown & Brown/Black
15	Black/Gray & Gray/Black
16	Yellow/Blue & Blue/Yellow
17	Yellow/Orange & Orange/Yellow
18	Yellow/Green & Green/Yellow
Single Conductor	White

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +150°C

Bulk Cable Weight: 132 lbs/1000 ft.

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Max. Recommended Pulling Tension:	203 lbs.
Min. Bend Radius/Minor Axis:	5 in.

### 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):	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
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)  
100

#### Nom. Inductance:

Inductance (µH/ft)  
0.21

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
12.95

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

Capacitance (pF/ft)  
23.3

#### Nominal Velocity of Propagation:

VP (%)  
78

#### Nominal Delay:

Delay (ns/ft)  
1.3

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
24

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
11

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Max. Recommended Current:

Current  
1.1 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88118 0081000	1,000 FT	148.000 LB	GRAY	C	18#24 PR + 1#24 FS SOLEF

## ENGLISH MEASUREMENT VERSION

### 88118 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications

88118 008500	500 FT	71.000 LB	GRAY	C	18#24 PR + 1#24 FS SOLEF
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**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 09-20-2012

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