

## 8164 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information  
please call

1-800-Belden1



### Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil + TC braid shield (65% coverage), drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	7x32	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

#### Inner Shield

##### Inner Shield Material:

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

##### Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### 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	65

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cabling

Overall Nominal Diameter: 9.855 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue

##### Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)
25.3999	39.372

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### Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
Non-UL Temperature Rating:	60°C (UL AWM Style 2493)
Bulk Cable Weight:	111.615 Kg/Km
Max. Recommended Pulling Tension:	493.750 N
Min. Bend Radius (Install)/Minor Axis:	101.600 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2493 (300 V 60°C)
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):	01/01/2004
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

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

100

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

41.0125

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

Capacitance (pF/m)

72.182

#### Nominal Velocity of Propagation:

VP (%)

78

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.4992

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 59.058 Ohm/km

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

#### Max. Recommended Current:

## METRIC MEASUREMENT VERSION

### 8164 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

#### Current

2.5 Amps per conductor @ 25°C

#### Notes (Overall)

**Notes:** Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

#### Related Documents:

No related documents are available for this product

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8164 060100	30 MT	3.719 KG	CHROME		4 FS PR #24 FHDPE SH PVC
8164 0601000	305 MT	35.834 KG	CHROME	C	4 FS PR #24 FHDPE SH PVC
8164 060500	152 MT	17.917 KG	CHROME	C	4 FS PR #24 FHDPE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

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