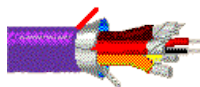


## 1803F Multi-Conductor - Multi-Pair Snake Cable



For more Information  
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) TC conductor, Datalene® insulation, pairs individually shielded with bonded Beldfoil® with a drain wire and have numbered and color-coded PVC jackets, overall Beldfoil® shield/drain wire + overall PVC jacket w/nylon rip cord.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	24	7x32	TC - Tinned Copper	.024

Total Number of Conductors: 8

**Insulation**

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.068

**Inner Shield**

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Inner Jacket**

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.167

Inner Jacket Color Code Chart:

Number	Color
1	Brown and Numbered 1
2	Red and Numbered 2
3	Orange and Numbered 3
4	Yellow and Numbered 4

**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
16	Stranded	TC - Tinned Copper

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

**Overall Cable**

Overall Nominal Diameter: 0.488 in.

**Pair**

Pair Color Code Chart:

Number	Color
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## 1803F Multi-Conductor - Multi-Pair Snake Cable

1	Red & Black
2	Red & Black
3	Red & Black
4	Red & Black

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	100 lbs/1000 ft.
Max. Recommended Pulling Tension:	82.500 lbs.
Min. Bend Radius/Minor Axis:	5 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
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):	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
MIL Order #39 (China RoHS):	Yes
Other Specification:	AES/EBU

**Flame Test**

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

110

**Nom. Inductance:**

Inductance (µH/ft)

.18

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

12

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

Capacitance (pF/ft)

26

**Nominal Velocity of Propagation:**

VP (%)

76

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

23.7

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
0.384	0.290
0.706	0.710
0.768	0.770
1.024	0.940
1.411	1.100

## 1803F Multi-Conductor - Multi-Pair Snake Cable

1.536	1.100
2.048	1.300
2.822	1.400
3.072	1.400
4.096	1.500
5.645	1.700
6.144	1.800
8.192	2.000
11.290	2.200
12.288	2.300
24.576	3.100

## Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS

## Max. Recommended Current:

<b>Current</b>
2.75 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. 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.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1803F B591000	1,000 FT	111.000 LB	BLACK, MATTE		4 #24 FHDPE FS PR PVC FS PVC
1803F Z4B1000	1,000 FT	111.000 LB	VIO Z4B	C	4 #24 FHDPE FS PR PVC FS PVC
1803F Z4B500	500 FT	57.500 LB	VIO Z4B	C	4 #24 FHDPE FS PR PVC FS PVC

## Notes:

C = CRATE REEL PUT-UP.

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