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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. (mm)
12	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 24

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	1.7272

#### 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. (mm)
PVC - Polyvinyl Chloride	4.2418

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
5	Green and Numbered 5
6	Blue and Numbered 6
7	Purple and Numbered 7
8	Gray and Numbered 8
9	White and Numbered 9
10	Black and Numbered 10
11	Tan and Numbered 11
12	Pink and Numbered 12

#### 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: 21.057 mm

**Pair**

**Pair Color Code Chart:**

Number	Color
1	Red & Black
2	Red & Black
3	Red & Black
4	Red & Black
5	Red & Black
6	Red & Black
7	Red & Black
8	Red & Black
9	Red & Black
10	Red & Black
11	Red & Black
12	Red & Black

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	428.602 Kg/Km
Max. Recommended Pulling Tension:	889.640 N
Min. Bend Radius/Minor Axis:	215.900 mm

**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
CSA Flame Test:	FT4

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
110

**Nom. Inductance:**

Inductance (µH/m)  
0.59058

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)  
39.372

## METRIC MEASUREMENT VERSION

## 1806F Multi-Conductor - Multi-Pair Snake Cable

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

#### Capacitance (pF/m)

85.306

### Nominal Velocity of Propagation:

#### VP (%)

76

### Nom. Conductor DC Resistance:

#### DCR @ 20°C (Ohm/km)

77.7597

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.384	0.951
0.706	2.330
0.768	2.526
1.024	3.084
1.411	3.609
1.536	3.609
2.048	4.265
2.822	4.593
3.072	4.593
4.096	4.922
5.645	5.578
6.144	5.906
8.192	6.562
11.290	7.218
12.288	7.546
24.576	10.171

### 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
1806F Z4B1000	1,000 FT	330.000 LB	VIO Z4B	C	12 #24 FHDPE FS PR PVC FS PVC
1806F Z4B500	500 FT	160.000 LB	VIO Z4B	C	12 #24 FHDPE FS PR PVC FS PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 03-17-2014

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