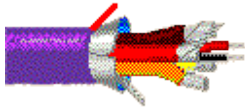


## 1805F Multi-Conductor - Multi-Pair Cable

For more Information  
please call

1-800-Belden1



### 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.)
8	24	7x32	TC - Tinned Copper	.024

#### 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
5	Green and Numbered 5
6	Blue and Numbered 6
7	Purple and Numbered 7
8	Gray and Numbered 8

#### 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: 0.661 in.

## 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

## Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 195 lbs/1000 ft.

Max. Recommended Pulling Tension: 137 lbs.

Min. Bend Radius (Install)/Minor Axis: 6.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

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

Other Specification: AES/EBU

### Flame Test

UL Flame Test: UL1685 FT4 Loading

C(UL) Flame Test: FT4

### Plenum/Non-Plenum

Plenum (Y/N): No

## 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.)
.384	.46
.7056	.67
.768	.70
1.024	.84
1.4112	1.03
1.536	1.09
2.048	1.30
2.8224	1.66
3.0720	1.76
4.096	2.23
5.6448	2.90
6.144	3.07
8.192	3.71
11.2896	4.53
12.288	4.78
24.576	7.11

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

### 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.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1805F Z4B1000	1,000 FT	211.000 LB	VIO Z4B	C	8 #24 PRS FHDPE FS PVC FS PVC
1805F Z4B500	500 FT	106.500 LB	VIO Z4B	C	8 #24 PRS FHDPE FS PVC FS PVC

**Notes:**  
C = CRATE REEL PUT-UP.

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