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1-800-Belden1



### General Description:

24 AWG stranded (7x32) TC conductor, plenum, foam FEP insulation, twisted pairs, individually shielded w/Beldfoil (100% coverage), 24 AWG stranded TC drain wire, overall fluorocopolymer jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
5	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 10

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
FFEP - Foam Fluorinated Ethylene Propylene	0.483

#### Inner Shield

##### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	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 Shield Color Code Chart:

Number	AWG	Color
1	24	Red
2	24	Green
3	24	Blue
4	24	Blue
5	24	Blue

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVDF - Fluorocopolymer	0.356

#### Overall Cable

Overall Nominal Diameter: 8.306 mm

#### 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

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +150°C
Bulk Cable Weight:	78.875 Kg/Km
Max. Recommended Pulling Tension:	733.953 N
Min. Bend Radius/Minor Axis:	88.900 mm

## 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/m)

0.78744

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

44.2935

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

Capacitance (pF/m)

73.8225

### Nominal Velocity of Propagation:

VP (%)

76

### Nominal Delay:

Delay (ns/m)

4.2653

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

## 89705 Multi-Conductor - Multi-Pair Snake Cable

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 47.246 Ohm/km

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
.384	2.42794
.7056	2.85447
.768	2.92009
1.024	3.11695
1.4112	3.37943
1.536	3.47786
2.048	3.83877
2.8224	4.49497
3.072	4.72464
4.096	5.47927
5.6448	6.20109
6.144	6.43076
8.192	7.41506
11.2896	8.49779
12.288	8.89151
24.576	12.2381

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Max. Recommended Current:**

Current
2.0 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89705 0081000	1,000 FT	62.000 LB	GRAY	C	5 #24 FS PR FFEP SLF
89705 008500	500 FT	30.500 LB	GRAY	C	5 #24 FS PR FFEP SLF

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

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