

## 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, Flammarrest® jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2	24	7x32	TC - Tinned Copper	.024

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.062

### 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: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride

### Overall Cabling

Overall Nominal Diameter: 0.255 in.

### Pair

#### Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

## Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 27 lbs/1000 ft.

Max. Recommended Pulling Tension: 33 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

## 82729 Multi-Conductor - Multi-Pair Snake Cable

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	10/01/2005
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
C(UL) Flame Test:	FT6

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9729

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
100

### Nom. Inductance:

Inductance (µH/ft)
0.24

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
13.5

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

Capacitance (pF/ft)
22.5

### Nominal Velocity of Propagation:

VP (%)
76

### Nominal Delay:

Delay (ns/ft)
1.3

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
24

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 14.400 Ohm/1000 ft

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
.384	0.74
.7056	0.87
.768	0.89
1.024	0.95
1.4112	1.03
1.536	1.06
2.048	1.17

## 82729 Multi-Conductor - Multi-Pair Snake Cable

2.8224	1.37
3.072	1.44
4.096	1.67
5.6448	1.89
6.144	1.96
8.192	2.26
11.2896	2.59
12.288	2.71
24.576	3.73

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

**Max. Recommended Current:**

**Current**

2.0 Amps per conductor @ 25°C

### Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82729 877U1000	1,000 FT	26.000 LB	NATURAL		2 PR #24 FFEPR FS FLMRST
82729 8771000	1,000 FT	28.000 LB	NATURAL	C	2 PR #24 FFEPR FS FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

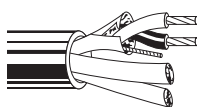
## Individually Shielded

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications  
Plenum-Rated


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire**

**Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket**

	300V RMS	<b>89729</b>	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 31.0	7.7 14.1	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.261 6.63	100	76%	13.5	44	22.5	73.8
		<b>89730</b>	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	21.5 40.0	9.8 18.2	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.278 7.06	100	76%	13.5	44	22.5	73.8
		<b>89728</b>	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.307 7.80	100	76%	13.5	44	22.5	73.8
		<b>89731</b>	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000†	152.4 304.8	35.0 71.0	15.9 32.3	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.361 9.17	100	76%	13.5	44	22.5	73.8
		<b>89732</b>	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	1000	304.8	108.0	49.0	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.429 10.90	100	76%	13.5	44	22.5	73.8

**Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket**

	300V RMS	<b>82729</b>	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	U-1000 1000	U-304.8 304.8	26.0 28.0	11.8 12.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.255 6.48	100	76%	13.5	44	22.5	73.8
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DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.  
\*\*Capacitance between one conductor and other conductors connected to shield.  
† Spools are one piece, but length may vary ±10% from length shown.