Detailed Specifications & Technical Data

BELDENCable™

82729 Paired - Multi-Pair Snake Cable

	For more information please call 1-800-Belden1 See Put-ups and Colors Color Code Chart : No. 5 for Paired Cables (Western Electric Standard).pdf

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, Flamarrest® jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4
AWG	24
Stranding	7x32
Conductor Diameter	.024 in.
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	FFEP - Foam Fluorinated Ethylene Propylene
Insulation Diameter	.062 in.

Pair Color Code Chart :

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

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil®
Inner Shield Type	Tape
Inner Shield Material	Aluminum Foil-Polyester Tape
Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	24
Inner Shield Drain Wire Stranding	7x32
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.255 in.

MECHANICAL CHARACTERISTICS:

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)	2.75 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005

FLAME TEST:

UL Flame Test	NFPA 262
C(UL) Flame Test	FT6

PLENUM/NON-PLENUM:

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

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	100 Ohms
Nom. Inductance	0.24 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	13.5 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	22.5 pF/ft
Nominal Velocity of Propagation	76 %
Nominal Delay	1.3 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	24 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	14.4 Ohms/1000 ft
Nom. Attenuation (dB/100 ft) :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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
	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	300 V RMS
Max. Recommended Current	2.0 Amps per conductor @ 25°C

NOTES:

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
82729 8771000	2 PR #24 FFEPR FS FLMRST	1000	28	NATURAL	C
82729 877U1000	2 PR #24 FFEPR FS FLMRST	U1000	26	NATURAL	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-06-2005

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