Belden



Product: 9729

RS232/422 Low Cap, #24-2pr, FPE, Indiv. Foil, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 2-Pair, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, individually Beldfoil® shielded (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	RS-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, …); digital audio; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	2	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.019 in (0.48 mm)	0.061 in (1.5 mm)	Black & Red, Black & White

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	each pair

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.266 in (6.76 mm)

Overall Cable Diameter (Nominal):	0.266 in (6.76 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
Pair(s)	28.8 Ohm/1000ft	17.42 Ohm/1000ft (57.15 Ohm/km)	12.5 pF/ft (41.0 pF/m)	23.2 pF/ft (76.1 pF/m)	100 Ohm	0.23 µH/ft (0.75 µH/m)	76%	2.1 Amps per Conductor at 25ºC

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
0.384	0.74 dB/100m
0.7056	0.87 dB/100m
0.768	0.88 dB/100m
1.024	0.94 dB/100m
1.4112	1.01 dB/100m
1.536	1.03 dB/100m
2.048	1.13 dB/100m
2.8224	1.29 dB/100m
3.072	1.35 dB/100m

4.096	1.57 dB/100m
5.6448	1.78 dB/100m
6.144	1.84 dB/100m
8.192	2.13 dB/100m
11.2896	2.45 dB/100ft
12.288	2.57 dB/100ft
24.576	3.57 dB/100ft

Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 2919)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
2.7 in (69 mm)	2.7 in (69 mm)

Max. Pull Tension:	27.5 lbs (12.5 kg)
Bulk Cable Weight:	35 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	89729, 82729

Product Notes

Notes:	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.

History

Update and Revision:	Revision Number: 0.590 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
9729.0030	Chrome	Reel	30 m	8719605022455	
9729 060100	Chrome	Reel	100 ft	612825257530	
9729.01152	Chrome	Reel	152 m	8719605022486	
9729.00305	Chrome	Reel	305 m	8719605022462	
9729.K0305	Chrome	Reel	305 m	8719605022493	
9729 060500	Chrome	Reel	500 ft	612825257561	C
9729.00500	Chrome	Reel	500 m	8719605022479	
9729 0601000	Chrome	Reel	1,000 ft	612825257547	C
9729.001100	Chrome	Reel	1,100 m	8719605022431	
9729.002000	Chrome	Reel	2,000 m	8719605022448	
9729 0605000	Chrome	Reel	5,000 ft	612825257578	C
9729 06010000	Chrome	Reel	10,000 ft	612825257554	C Y

Footnote:	C - CRATE REEL PUT-UP., Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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