

Part Number: 89729



RS-232/422 Low Cap, #24-2pr, FFEP, Indiv. Foil, PVDF Jkt, CMP, 100Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, foam FEP insulation, twisted pairs, individually shielded with Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall fluorocopolymer jacket, plenum rated

Technical Specifications

Physical Characteristics (Overall)

Conductor					
AWG	Stranding	Material	Nominal Diameter	No. of Pairs	
24	7x32	TC - Tinned Copper	0.024 in	2	
Condu	ctor Count:				
AWG S	AWG Size:				

Insulation

Material	Nominal Wall Thickness
FFEP - Foam Fluorinated Ethylene Propylene	0.019 in

Color Chart

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

Inner Shield Material

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVDF - Polyvinylidene Fluoride	0.261 in	0.017 in

	ns			
Stranding				
Lay Length Lay Direction Twists				
1.75 in Left Hand 6.9 twist/	′ft			
Conductor DCR	Nominal Conductor DCR			
Conductor DCR	Nominal Conductor DCR 24 Ohm/1000ft			
Electrical Characteristics Conductor DCR Individual Pair Nominal Shield DCR 14.4 Ohm/1000ft Capacitance				
Conductor DCR Individual Pair Nominal Shield DCR 14.4 Ohm/1000ft	24 Ohm/1000ft	Conductor to Other	Conductor to Shield	

Inductance

Nominal Inductance

0.24 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.384 MHz	0.74 dB/100ft
0.7056 MHz	0.87 dB/100ft
0.768 MHz	0.89 dB/100ft
1.024 MHz	0.95 dB/100ft
1.4112 MHz	1.03 dB/100ft
1.536 MHz	1.06 dB/100ft
2.048 MHz	1.17 dB/100ft
2.8224 MHz	1.37 dB/100ft
3.072 MHz	1.44 dB/100ft
4.096 MHz	1.67 dB/100ft
5.6448 MHz	1.89 dB/100ft
6.144 MHz	1.96 dB/100ft
8.192 MHz	2.26 dB/100ft
11.2896 MHz	2.59 dB/100ft
12.288 MHz	2.71 dB/100ft
24.576 MHz	3.73 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
76 ns/100m	1.3 ns/ft	76 %

High Freq

Frequency [MH	lz]
0.384 MHz	
0.7056 MHz	
0.768 MHz	
1.024 MHz	
1.4112 MHz	
1.536 MHz	
2.048 MHz	
2.8224 MHz	
3.072 MHz	
4.096 MHz	
5.6448 MHz	
6.144 MHz	
8.192 MHz	
11.2896 MHz	
12.288 MHz	
24.576 MHz	

Current

Max. Recommended Current [A]	
2 Amps per conductor @ 25°C A	
Current Table Note:	10C Temperature Rise
Voltage	
UL Voltage Rating	
300V RMS	
Temperature Range	
Operating Temp Range:	-20°C to +150°C
Mechanical Characteristics	
Bulk Cable Weight:	27 lbs/1000ft

Max Recommended Pulling Tension:	33 lbs
Min Bend Radius/Minor Axis:	2.75 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Fca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes	

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
CSA Flammability:	FT6

Part Number

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

Variants

	Item #	Color	Footnote
-	89729 0081000	GRAY	С
1	89729 008500	GRAY	С
1	89729 0085000	GRAY	
1	Footnote:		

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