



Part Number: 9830

RS-232/422 Low Cap, #24-3pr, PO, O/A Foil+Braid, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	3
Total Number of Conductors:			6

Insulation:

Material	Nominal Wall Thickness
PE - Polyethylene	0.016 in

Color Chart 1:

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

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	24	Stranded mm
Braid	2	TC - Tinned Copper		65 %			

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.305 in	0.035 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	4.4 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
15.5 pF/ft	27.5 pF/ft

Impedance:

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical):

Nom. Insertion Loss
18.4 dB/100m

Delay:

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.6 ns/ft	66 %

High Freq:

Min. ACR [dB]	Min. PSACR [dB]	Min. RL (Return Loss) [dB]
18.4 dB	18.4 dB	
		18.4 dB
		18.4 dB
		18.4 dB

Current:

Max. Recommended Current [A]
2.1 Amps per conductor @ 25°C A

Voltage:

UL Description	UL Voltage Rating
UL AWM Style 2919	30V RMS V
CM	300 V RMS

Performance:

Min PSACRF	Min. Return Loss
Belden	Belden
18.3 dB	
	18.4 dB

Safety

UL Flammability:	UL1685 UL Loading
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Temperature Range

Operating Temp Range:	-30°C To +80°C °C
UL Temp Rating:	80°C (UL AWM Style 2919) °C

Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.25 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CM
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Product Variants

Part Number	Color	Put-Up Type	Length
9830			
9830	CHROME	Reel	305 m
9830 0601000	CHROME	Reel	1000 ft
9830			
9830	CHROME	Reel	152 m
9830 060500	CHROME	Reel	500 ft
9830	CHROME	Reel	305 m
9830			

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