Product: 8164 ⧉

RS232/422 Low Cap, #24-4pr, FPO, Indiv.& O/A Foils+Braid, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 4 twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil® + tinned copper braid shield (65% coverage), drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	RS-232 Extended Distance & 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	Number of Element	AWG	Stranding	Material
Pair(s)	4	24	7x32	TC - Tinned Copper

Insulation

Element	Material	Thickness [in]	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.0185	Black & Red, Black & White, Black & Green, Black & Blue

Inner Shield Material

Element	Type	Material	Coverage	Drain Type	Notes
Pair(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC	Z-Fold® Foil-in

Outer Shield Material

Type	Material	Coverage
Tape + Braid	Alum / Poly + Tinned Copper (TC)	100% + 65%

Outer Jacket Material

Material	Thickness	Diameter
PVC - Polyvinyl Chloride	0.048 in	0.388 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	12.5 pF/ft	22 pF/ft	100 Ohm	78%	2.5 Amps per conductor @ 25°C A

Voltage

UL Voltage Rating
300 V (CM), 300 V (UL AWM 2493)

Mechanical Characteristics

Temperature

UL Rating	Operating

60°C (UL AWM 2493)	-40°C to +60°C

Bend Radius

Stationary Min.
4 in

Max. Pull Tension:	111 lbs
Bulk Cable Weight:	72 lbs/1000ft

Standards and Compliance

Flammability / Fire Resistance:	IEC 60332-1-2
NEC / UL Compliance:	CM
AWM Compliance:	2493
CEC / C(UL) Compliance:	CM
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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: 0.269 Revision Date: 06-05-2020