Product: 88109

RS232/422 Low Cap, #24-9pr, FFEP, O/A Foil, PVDF Jkt, CMP, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 9-Pair, 24 AWG stranded (7x32) tinned copper conductors, foam FEP insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, fluorocopolymer jacket, plenum rated

Technical Specifications

Product Overview

Suitable Applications:	extreme high temperature environments; rs-232 extended distance applications; rs-422 applications; computer communication; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	9	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.015 in (0.38 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, Red/Green Stripe & Green/Red Stripe, Red/Brown Stripe & Brown/Red Stripe

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.014 in (0.36 mm)	0.352 in (8.94 mm)

Overall Cable Diameter (Nominal):	0.352 in (8.94 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft (79 Ohm/km)	12.95 pF/ft (42.49 pF/m)	23.3 pF/ft (76.4 pF/m)	100 Ohm	78%	1.1 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-20°C to +150°C

Max. Pull Tension:	104 lbs (47.2 kg)
Bulk Cable Weight:	65 lbs/1000ft (97 kg/km)

Standards and Compliance

Flammability / Reaction to Fire:	NFPA 262 Plenum Flame Test (UL910)
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.318 Revision Date: 12-22-2023

Part Numbers

Variants

Item #	Color	UPC	Footnote
88109 0081000	Gray	612825216766	C
88109 008500	Gray	612825216773	C