BELDEN

Product: 89503 ⧉

RS232, #24-3pr, FEP, O/A Foil, FEP Jkt, CMP

Product Description

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, FEP insulation, 3 twisted pair, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, FEP jacket, plenum rated

Technical Specifications

Product Overview

Suitable Applications:	extreme high/low temperature environments; rs-232 applications; computer communications; 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)	3	24	7x32	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene	0.006 in (0.15 mm)	0.036 in (0.91 mm)	Black & Red, Black & White, Black & Green

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
FEP - Fluorinated Ethylene Propylene	0.015 in (0.38 mm)	0.177 in (4.50 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
28.8 Ohm/1000ft	10.46 Ohm/1000ft (34.32 Ohm/km)	21 pF/ft (69 pF/m)	40 pF/ft (130 pF/m)	1.5 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-70°C To +150°C

Bend Radius

Stationary Min.	Installation Min.
1.77 in (45.0 mm)	1.77 in (45.0 mm)

Max. Pull Tension:	39 lbs (18 kg)
Bulk Cable Weight:	21 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	NFPA 262 (UL910), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	9503

History

Update and Revision:	Revision Number: 0.435 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
89503 002100	Red	612825220992	C
89503 0021000	Red	612825221005	C
89503 002500	Red	612825221012	C

Mouser Electronics

Authorized Distributor

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