



Part Number: 89842

RS-485, #24-2pr, FFEP, O/A Foil+Braid, FEP Jkt, CMP, 120Ω

Product Description

Computer EIA RS-485 Cable, 24 AWG stranded (7x32) tinned copper conductors, twisted pairs, foam FEP insulation, overall 100% Beldfoil® shield, 24 AWG stranded tinned copper drain wire, overall tinned copper braid shield (90% coverage), FEP jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
24	7x32	TC - Tinned Copper	4	2

Conductor Count:	4
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Insulation

Element	Material	Material Trade Name	Nominal Wall Thickness
24	FFEP - Foam Fluorinated Ethylene Propylene	Teflon®	0.023 in

Color Chart

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

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm
Braid	2	TC - Tinned Copper		90 %			

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.305 in	0.014 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	3.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
12 pF/ft	22 pF/ft

Impedance

Nominal Characteristic Impedance
120 Ohm

Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]

76 ns/100m	76 %
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Current

Max. Recommended Current [A]

4 Amps per conductor @ 25°C A

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temp Range: -70°C To +150°C

Mechanical Characteristics

Bulk Cable Weight: 44 lbs/1000ft

Max Recommended Pulling Tension: 68 lbs

Min Bend Radius/Minor Axis: 3.25 in

Standards

NEC Articles: 800

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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

Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262 Plenum Flame Test (UL910)

CSA Flammability: FT6

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 9842

Variants

Item #	Color	UPC	Footnote
89842 0021000	Red	612825221333	C
89842 002500	Red	612825221340	C

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

History

Update and Revision: Revision Number: 0.294 Revision Date: 08-22-2019

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