



Part Number: 9842

RS-485, (2 pr) 24 AWG (7x32) TC, PE/PVC, Foil+TC Braid Shld, CM, 120Ω

Product Description

Two 24 AWG pairs stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:			RS-48	
Physical Characteristics (Overall)				
Conductor				
AWG	Stranding	Material	No. of Conductors	No. of Pai
24	7x32	TC - Tinned Copper	4	2
Conductor Count:			4	
Total Number of Pairs:			2	

Insulation

Material	Nominal Wall Thickness
PE - Polyethylene	0.022 in

Color Chart

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

Outer Shield Material

Туре	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	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.34 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	2.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
12.8 pF/ft	23 pF/ft

Impedance

Nominal Characteristic Impedance

120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	
1 MHz	0.6 dB/100m	

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.54 ns/ft	66 %

Current

Max. Recommended Current [A]
Per conductor @ 25°C: 2.1 A

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

UL Temp Rating:	80°C
Operating Temp Range:	-30°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	49 lbs/1000ft
Max Recommended Pulling Tension:	87 lbs
Min Bend Radius/Minor Axis:	3.5 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	СМ
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)
CPR Euroclass:	Eca

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 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes	

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	N
Plenum Number:	82842

Part Number

Variants

Item # Color	UPC	Length	Footnote
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9842.001000	Chrome		1,000 m	
9842.00152	Chrome		152 m	
9842.001525	Chrome		1,525 m	
9842.0030	Chrome		30 m	
9842.00305	Chrome		305 m	
9842.00500	Chrome		500 m	
9842.009999	Chrome		151 m	
9842 060100	Chrome	612825259510	100 ft	
9842 0601000	Chrome	612825259527	1,000 ft	С
9842 06010000	Chrome	612825259534	10,000 ft	
9842 060500	Chrome	612825259541	500 ft	С
9842 0605000	Chrome	612825259558	5,000 ft	
9842.K0305	Chrome		305 m	
9842.K01525	Chrome		1,525 m	

Footnote: C - CRATE REEL PUT-UP.

History

Update and Revision: Revision Number: 0.321 Revision Date: 08-22-2019

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