



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**

#### 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	
Shielding:		Foil + Braid(s)

#### Impedance

Nominal Characteristic Impedance

## 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

#### **Mated Connection**

Min. Return Loss Belden\*\* (dB)

# **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:	CM
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
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# Flammability, LS0H, Toxicity Testing

UL voltage rating: 300 V RMS
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# Plenum/Non-Plenum

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

# **Part Number**

#### Variants

Item #	Color	Footnote
9842.001000	Chrome	
9842.00152	Chrome	
9842.0030	Chrome	
9842.00305	Chrome	
9842.00500	Chrome	
9842.009999	Chrome	
9842 060100	Chrome	
9842 0601000	Chrome	С
9842 06010000	Chrome	
9842 060500	Chrome	С
9842 0605000	Chrome	

Footnote: C - CRATE REEL PUT-UP.

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