



# **Product Description**

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

### **Technical Specifications**

### **Product Overview**

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

## **Physical Characteristics (Overall)**

Condu	ctor			
AWG	Stranding	Material	No.	of Pairs
24	7x32	TC - Tinned C	opper 2	
Condu	ctor Count:		4	
Insulation				
		Material		Nomina

FEP - Fluorinated Ethylene Propylene (Foam)	0.015 in

### Color Chart

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

#### **Outer Shield Material**

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	24	7x32

### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVDF - Polyvinylidene Fluoride	0.203 in	0.014 in

### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	15.5 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
13 pF/ft	23.3 pF/ft

#### Inductance

Nominal Inductance

#### Impedance

Nominal Characteristic Impedance

100 Ohm

# High Frequency (Nominal/Typical)

Nom. Insertion Loss

22.5 dB/100m

#### Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
78 ns/100m	1.3 ns/ft	78 %

#### Current

Max. Recommended Current [A]

1.76 Amps per conductor @ 25°C A

### Voltage

UL Voltage Rating 300 V RMS

## **Temperature Range**

### **Mechanical Characteristics**

Bulk Cable Weight:	20 lbs/1000ft
Max Recommended Pulling Tension:	28 lbs
Min Bend Radius/Minor Axis:	2.25 in

### **Standards**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

# Flammability, LS0H, 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**

Variants		
Item #	Color	UPC
88102 0081000	Gray	612825216643
88102 008500	Gray	612825216650
Footnote:		C - C

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