



## **Product Description**

High Temperature Electronic, 9 Conductor 18AWG (19x30) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

## **Technical Specifications**

#### **Product Overview**

Suitable Applications:	extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v,); low voltage control (24v,); line level audio; voice communications; panel wiring

## Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding		Material	No. of Conductors
Conductor(s)	18	19x30	٦	C - Tinned Copper	9
Conductor Co	unt:			9	

#### Insulation

Element	Material	Nominal Wall Thickness
Conductor(s	) FEP - Fluorinated Ethylene Propylene	0.0065 in

#### **Color Chart**

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black

### **Outer Shield Material**

Туре	Layer	Material	Material Trade Name	Coverage [%]
Таре	1	Alum / Poly	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		85 %

#### **Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.265 in	0.015 in

#### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
5.8 Ohm/1000ft	2.7 Ohm/1000ft

## Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
33 pF/ft	60 pF/ft
Inductance	

# Nominal Inductance

0.14 µH/ft

#### Current

Element	Max. Recommended Current [A]
10C Temperature Rise	3.8 Amps per conductor @ 25°C ambient

#### Voltage

UL Voltage Rating 300 V RMS

## **Temperature Range**

Operating Temp Range:	-70°C To +200°C

## **Mechanical Characteristics**

Bulk Cable Weight:	81 lbs/1000ft
Max Recommended Pulling Tension:	216 lbs
Min Bend Radius/Minor Axis:	2.75 in

## Standards

NEC Articles:	800
NEC/(UL) Specification:	СМР
CEC/C(UL) Specification:	СМР
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 RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## Flammability, LS0H, Toxicity Testing

	NEEDA 000
UL Flammability:	NFPA 262
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

002100	Red	Reel	100 ft	612825205395	
33659 002500	Red	Reel	500 ft	612825205418	
83659 0021000	Red	Reel	1,000 ft	612825205401	
83659 0025000	Red	Reel	5,000 ft	612825205425	
Footnote:			C - CRATE	E REEL PUT-UP.	
Footnote:		Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.			

## History

Update and Revision:

Revision Number: 0.291 Revision Date: 05-11-2020

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