



**Product:** [83395](#)

Electronic, 3 C #22 Str TC, FEP Ins, OS, Silicone Jkt, AWM 4516

[Request Sample](#)

## Product Description

High Temperature Electronic, 3 Conductor 22AWG (7x30) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, Silicone Outer Jacket, AWM 4516

## Technical Specifications

### Product Overview

Suitable Applications:	extreme high/low temperature environments; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	22	7x30	TC - Tinned Copper	3

Conductor Count:	3
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#### Insulation

Element	Material	Material Trade Name	Nominal Wall Thickness
Conductor(s)	FEP - Fluorinated Ethylene Propylene	Teflon®	0.0155 in

#### Color Chart

Number	Color
1	Black
2	Red
3	White

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Conductive Textile	Beldfoil®		TC - Tinned Copper	22	7x30
Tape	1	Alum / Poly		1 %			

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
Silicone Rubber	0.208 in	0.0315 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
17.5 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
22 pF/ft	40 pF/ft

#### Current

Max. Recommended Current [A]

2.8 Amps per conductor @ 25°C

## Voltage

Non-UL Description	Non-UL Voltage Rating	UL Description	UL Voltage Rating
Between Conductors	600 V	UL AWM 4516	600 V
Through Jacket	2000 V DC		

## Temperature Range

UL Temp Rating:	150°C (UL AWM 4516)
Operating Temp Range:	-70°C to +150°C

## Mechanical Characteristics

Bulk Cable Weight:	28 lbs/1000ft
Max Recommended Pulling Tension:	30 lbs
Min Bend Radius/Minor Axis:	2.25 in

## Standards

UL AWM Style:	4516
CPR Euroclass:	Eca
Military Specification:	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
Other Specification:	NEMA HP3

## 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):	2005-04-01
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

## Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	600 V

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
83395 002100	Red	Reel	100 ft	612825204602
83395 002500	Red	Reel	500 ft	612825204619

## Product Notes

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

Update and Revision:	Revision Number: 0.298 Revision Date: 05-19-2020
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