



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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
22	7x30	TC - Tinned Copper	3

Conductor Count:

Insulation

Material	Material Trade Name	Nominal Wall Thickness
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	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	22	7x30
Tape	1	Conductive Textile					

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

Between Conductors	600 V RMS
Through Jacket	2000 V DC V

Temperature Range

UL Temp Rating:	150°C
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:	UL Style 4516 (600 V 150°C)
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
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
-----------------------	---------------

Part Number

Variants

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

Product Notes

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

History

Update and Revision:	Revision Number: 0.291 Revision Date: 04-08-2020
----------------------	--

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.