



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
------------------------	--

Construction Details

Conductor

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

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.016 in (0.41 mm)	0.060 in (1.5 mm)	Black, Red, White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Textile (Conductive)	100%	
Tape	Bi-Laminate (Alum+Nomex®)	100%	22 AWG (7x30) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
Silicone Rubber	0.032 in (0.81 mm)	0.208 in (5.28 mm)

Overall Cable Diameter (Nominal): 0.208 in (5.28 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	18.1 Ohm/1000ft	22 pF/ft (72 pF/m)	40 pF/ft (130 pF/m)	2.8 Amps per Conductor at 25°C

Nom Outer Shield DCR: 12.39 Ohm/1000ft (40.65 Ohm/km)

Voltage

UL Voltage Rating	Voltage Rating
600 V (UL AWM 4516)	600 V (Between Conductors), 2000 V DC (Through Jacket)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-70°C to +150°C

Bend Radius

Stationary Min.	Installation Min.

2.08 in (52.8 mm) 2.08 in (52.8 mm)

Max. Pull Tension: 36 lbs (16 kg)

Bulk Cable Weight: 28 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	VW-1 (Singles)
CPR Compliance:	CPR Euroclass: Eca
AWM Compliance:	AWM 4516
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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: 0.552 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

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

© 2026 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 "AS IS" 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.