



REPRESENTATIVE IMAGE

**Product:** [8641](#)

Electronic, 2 C #24 Str TC, PE Ins, OS, PVC Jkt, CM

[Request Sample](#)

## Product Description

Electronic, 2 Conductor 24AWG (7x32) Tinned Copper, PE Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, CM

## Technical Specifications

### Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring
------------------------	---

### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	1	24	7x32	TC - Tinned Copper

#### Insulation

Element	Material	Thickness	Color Code
Pair(s)	PE - Polyethylene	0.017 in (0.43 mm)	Black & Clear

#### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.168 in

Cable Diameter (Nominal):	0.168 in (4.27 mm)
---------------------------	--------------------

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Max. Current
Pair(s)	25 Ohm/1000ft (82 Ohm/km)	22 pF/ft (72 pF/m)	42 pF/ft (140 pF/m)	80 Ohm	2.2 Amps per Conductor at 25°C

Nom. Outer Shield DCR:	14.6 Ohm/1000ft
------------------------	-----------------

#### Voltage

UL Voltage Rating
300 V (CM), 300 V (UL AWM 2092)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
60°C (UL AWM 2092)	-20°C to +80°C

#### Bend Radius

Stationary Min.	Installation Min.

1.7 in (43 mm)	1.7 in (43 mm)
----------------	----------------

Max. Pull Tension:	11 lbs (5.0 kg)
Bulk Cable Weight:	12 lbs/1000ft (18 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT1, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	2092
CEC / C(UL) Compliance:	CM
CPR Euroclass:	Eca
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	88641, 82641

## History

Update and Revision:	Revision Number: 0.363 Revision Date: 07-02-2021
----------------------	--

© 2021 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.