



**Product:** [9342](#)

High Perform Instr, 1 Pr #16 Str TC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC

[Request Sample](#)

### Product Description

High Performance Instrumentation, 1 Pair 16AWG (19x29) Tinned Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC

### Technical Specifications

#### Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners
------------------------	---

#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	16 AWG	19x29	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.101 in (2.57 mm)	ICEA Chart E2

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	16 AWG (19x29) TC

##### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter	Ripcord
Cotton Serve	PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.294 in (7.47 mm)	Yes

Overall Cable Diameter (Nominal):	0.294 in (7.47 mm)
-----------------------------------	--------------------

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Pair(s)	4.45 Ohm/1000ft	50 pF/ft (160 pF/m)	87 pF/ft (290 pF/m)	6.2 Amps per conductor at 25°C

##### Voltage

UL Voltage Rating
600 V (TC), 150 V (NPLF)

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-30°C to +90°C Dry, 75°C wet

##### Bend Radius

Stationary Min.	Installation Min.

2.9 in (74 mm)	2.9 in (74 mm)
----------------	----------------

Max. Pull Tension:	40 lbs (18 kg)
--------------------	----------------

Bulk Cable Weight:	52 lbs/1000ft
--------------------	---------------

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
----------------------------	--

Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202, FT4
----------------------------------	------------------------------------

NEC / UL Compliance:	Article 336, Article 760, NPLF, TC
----------------------	------------------------------------

European Directive Compliance:	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)
------------------	---------------------------------

## History

Update and Revision:	Revision Number: 0.587 Revision Date: 02-15-2024
----------------------	--

## Part Numbers

### Variants

Item #	Color	UPC	Footnote
9342 0101000	Black	612825232056	C
9342 010500	Black	612825232070	C
9342 0105000	Black	612825232087	
9342 01010000	Black	612825232063	

© 2024 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.