



**Product:** [1098A](#)

Inst, 8 Tri #16 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry/Wet

[Request Sample](#)

### Product Description

UL Instrumentation, 8 Triad 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

### 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, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners
------------------------	--

#### Construction Details

##### Conductor

Element	Number of Element	Size	Stranding	Material
Triad(s)	8	16 AWG	7x24	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.101 in (2.57 mm)	ICEA Chart E1

##### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Triad(s)	Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC	each triad

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) TC

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.084 in (2.1 mm)	0.877 in (22.3 mm)	Yes

Overall Cable Diameter (Nominal):	0.877 in (22.3 mm)
-----------------------------------	--------------------

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
Triad(s)	4.36 Ohm/1000ft	4.99 Ohm/1000ft (16.4 Ohm/km)	8 Amps per conductor @ 30°C

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
----------------	-----------

90°C Dry, 90°C Wet -30°C to 90°C Dry/Wet

#### Bend Radius

Stationary Min.	Installation Min.
10.5 in (267 mm)	10.5 in (267 mm)

Max. Pull Tension:	915 lbs (415 kg)
Bulk Cable Weight:	464 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER
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)
Other Standard Compliance(s):	ICEA S-73-532, S-61-402

#### History

Update and Revision:	Revision Number: 0.538 Revision Date: 04-14-2023
----------------------	--

#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC
1098A 0102000	Black	Reel	2,000 ft	612825106678
1098A 0102500	Black	Reel	2,500 ft	612825106685
1098A 0105000	Black	Reel	5,000 ft	612825106692
1098A 0107500	Black	Reel	7,500 ft	612825106715

© 2023 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.