



**Product:** [8450](#)

Audio & Instrumentation, #22-1pr, TC, O/A Foil, CM



### Product Description

22 AWG solid tinned copper conductors, polypropylene insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG solid TC drain wire, PVC jacket.

### 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

Size	Stranding	Material
22	Solid	TC - Tinned Copper

##### Insulation

Material	Nom. Thickness	Color Code
PP - Polypropylene	0.007 in (0.18 mm)	Black & Red

##### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.018 in (0.46 mm)	0.118 in

#### Electrical Characteristics

##### Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
16.1 Ohm/1000ft (52.8 Ohm/km)	40 pF/ft (130 pF/m)	76 pF/ft (250 pF/m)	40 Ohm	66%	2.9 Amps per Conductor at 25°C

##### Voltage

UL Voltage Rating
300 V RMS

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
75°C	-20°C To +105°C

Max. Pull Tension:	37 lbs (17 kg)
Bulk Cable Weight:	12 lbs/1000ft (18 kg/km)

#### Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CM
CEC / C(UL) Compliance:	CM
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)

## History

Update and Revision:	Revision Number: 0.442 Revision Date: 01-20-2023
----------------------	--

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
8450 010U500	Black	UnReel	500 ft	612825207672
8450 0101000	Black	Reel	1,000 ft	612825207627
8450 010U1000	Black	UnReel	1,000 ft	612825207634
8450 0081000	Gray	Reel	1,000 ft	612825207641

© 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.