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 Impedence	Nom. Delay	Nom. Inductance	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	1.5 ns/ft	0.08 µH/ft (0.26 µH/m)	66%	2.9 Amps per Conductor at 25ºC

Nom Outer Shield DCR:	12.65 Ohm/1000ft (41.50 Ohm/km)

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: 0.447 Revision Date: 09-07-2025

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

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