



Product: <u>8451</u> ☑

Audio & Instrumentation, 1 Pair 22 AWG, TC, O/A Foil, CM

Product Description

1 Pair 22 AWG stranded (7x30) TC conductors, polypropylene insulation, paper wrap, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	for use with automatic stripping equipments; low voltage analog signals (4-20ma, 0-10v,); low voltage digital control (24v,); line level audio; computer communication; panel wiring
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Construction Details

Con	du	cto	r

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PP - Polypropylene	0.009 in (0.23 mm)	Black & Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.138 in (3.51 mm)
Overall Cable Diameter (Nominal):	0.138 in (3.51 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	14.5 Ohm/1000ft (47.6 Ohm/km)	34 pF/ft (110 pF/m)	67 pF/ft (220 pF/m)	45 Ohm	66%	2.9 Amps per Conductor at 25℃

Voltage

UL Voltage Rating 300 V RMS

Mechanical Characteristics

Temperature

Operating -20°C To +75°C

Bend Radius

1.4 in (36 mm) 1.4 in (36 mm)	
Max. Pull Tension:	27 lbs
Bulk Cable Weight:	13 lbs/1000ft (19 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL1666 Vertical Shaft, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMG
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)

Product Notes

Notes:

Unique paper separator facilitates jacket stripping.

History

Update and Revision:

Revision Number: 0.359 Revision Date: 12-15-2021

Variants

Putup Type Length UPC Item # 8451 010100 612825207726 Black Reel 100 ft 8451 010500 Black 612825207764 Reel 500 ft 8451 010U500 Black UnReel 500 ft 612825427414 8451 0101000 Black Reel 1,000 ft 612825207733 8451 010U1000 Black UnReel 1,000 ft 612825207702 8451 010Z1000 Black ReelTuff Box 1.000 ft 612825208129 8451 01015000 Black Reel 5,000 ft 612825207757 5.000 ft 612825207696 8451 0105000 Black Reel 8451 01010000 Black Reel 10,000 ft 612825207740 8451 008500 Grav Reel 500 ft 612825207658 8451 008U500 Gray UnReel 500 ft 612825427407 8451 0081000 612825207689 Grav Reel 1.000 ft 8451 008U1000 Gray UnReel 1,000 ft 612825207665 8451 008Z1000 Gray ReelTuff Box 1,000 ft 612825207719

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Mouser Electronics

Authorized Distributor

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8451 010500
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8451 0101000
8451 010U1000
8451 008U1000
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