



REPRESENTATIVE IMAGE

Product: [8451](#)

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

Conductor

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
Tape	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 Impedance	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°C

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

Operating
-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1.4 in (36 mm)	1.4 in (36 mm)

Max. Pull Tension:	27 lbs (12 kg)
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.
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History

Update and Revision:	Revision Number: 0.359 Revision Date: 12-15-2021
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
8451 010100	Black	Reel	100 ft	612825207726
8451 010500	Black	Reel	500 ft	612825207764
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
8451 0105000	Black	Reel	5,000 ft	612825207696
8451 01010000	Black	Reel	10,000 ft	612825207740
8451 008500	Gray	Reel	500 ft	612825207658
8451 008U500	Gray	UnReel	500 ft	612825427407
8451 0081000	Gray	Reel	1,000 ft	612825207689
8451 008U1000	Gray	UnReel	1,000 ft	612825207665
8451 008Z1000	Gray	ReelTuff Box	1,000 ft	612825207719

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