



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	AWG	Stranding	Material
Pair(s)	1	22	7x30	TC - Tinned Copper

#### Insulation

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

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.138 in

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

Nom. Outer Shield DCR: 14.1 Ohm/1000ft

#### 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 / Fire Resistance:	UL1666 Vertical Shaft, FT4, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMG
CPR Euroclass:	Eca
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: 0.351 Revision Date: 07-02-2021
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