Belden



Product: 8441

Audio, Control and Instrumentation Cable, 1 Pr #22 Str TC, 85% TC Braid, PVC Jkt, CMG

Product Description

Audio, Control & Instrumentation Cable, 1 Pair 22 AWG (7 x 30) Tinned Copper, PVC insulation, 85% Tinned Copper Braid Shield, PVC Jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	Audio/Speaker, Control & Instrumentation

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	Black & Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type	Notes
Braid	Tinned Copper (TC)	85%	22 AWG (19x34) TC	Polyester tape under braid

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.194 in (4.93 mm)

Overall Cable Diameter (Nominal):	0.194 in (4.93 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Inductance	Max. Current
Pair(s)	18.2 Ohm/1000ft	49 pF/ft (160 pF/m)	86 pF/ft (280 pF/m)	45 Ohm	0.2 µH/ft (0.66 µH/m)	2.9 Amps per conductor @ 25°C

Nom Outer Shield DCR@Cond DCR1-cnv:	5 Ohm/1000ft (16 Ohm/km)

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

Bend Radius

Stationary Min.	Installation Min.

1.9 in (48 mm)	1.9 in (48 mm)

Max. Pull Tension:	57 lbs (26 kg)
Bulk Cable Weight:	25 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMG
AWM Compliance:	AWM 2095
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.488 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8441 010100	Black	Reel	100 ft	612825207184	
8441 010500	Black	Reel	500 ft	612825207207	C
8441 010U500	Black	UnReel	500 ft	612825207610	
8441 0101000	Black	Reel	1,000 ft	612825207191	C
8441 010U1000	Black	UnReel	1,000 ft	612825207160	
8441 0105000	Black	Reel	5,000 ft	612825207153	

Footnote:	C - CRATE REEL PUT-UP.

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