Belden



Product: 8641

Electronic, 2 C #24 Str TC, PE Ins, OS, PVC Jkt, CM

Request Sample

Product Description

Electronic, 2 Conductor 24AWG (7x32) Tinned Copper, PE Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, CM

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

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.017 in (0.43 mm)	0.056 in (1.4 mm)	Black & Clear

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.168 in (4.27 mm)

Overall Cable Diameter (Nominal):	0.168 in (4.27 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)	28.8 Ohm/1000ft	22 pF/ft (72 pF/m)	42 pF/ft (140 pF/m)	80 Ohm	0.22 µH/ft (0.72 µH/m)	3.8 Amps per Conductor at 30ºC

Nom Outer Shield DCR@Cond DCR1-cnv:	17.42 Ohm/1000ft (57.15 Ohm/km)

Voltage

UL Voltage Rating
300 V (CM), 300 V (UL AWM 2092)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.

1.7 in (43 mm)	1.7 in (43 mm)

Max. Pull Tension:	16.5 lbs (7.48 kg)
Bulk Cable Weight:	12 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL loading , IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2092
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)
Plenum Number:	88641, 82641

History

Update and Revision:	Revision Number: 0.533 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8641 060100	Chrome	Reel	100 ft	612825213765	
8641 060500	Chrome	Reel	500 ft	612825213789	
8641 060U500	Chrome	UnReel	500 ft	612825213758	
8641 0601000	Chrome	Reel	1,000 ft	612825213772	C
8641 060U1000	Chrome	UnReel	1,000 ft	612825213741	
8641 0605000	Chrome	Reel	5,000 ft	612825213796	

Footnote:	C - CRATE REEL PUT-UP.

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