



**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
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**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	2
Total Number of Pairs:	1

**Insulation**

Element	Material	Nominal Wall Thickness
Pair(s)	PE - Polyethylene	0.0165 in

**Color Chart**

Number	Color
1	Black & Clear

**Outer Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	24	7x32

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.168 in	0.025 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
25 Ohm/1000ft	14.6 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
22 pF/ft	42 pF/ft

**Inductance**

Nominal Inductance
0.22 µH/ft

**Impedance**

Nominal Characteristic Impedance
80 Ohm

#### Current

Max. Recommended Current [A]
2.2 Amps per conductor @ 25°C

#### Voltage

UL Description	UL Voltage Rating
CM	300 V
UL AWM 2092	300 V

#### Temperature Range

UL Temp Rating:	60°C (UL AWM 2092)
Operating Temp Range:	-20°C to +80°C

#### Mechanical Characteristics

Bulk Cable Weight:	12 lbs/1000ft
Max Recommended Pulling Tension:	11 lbs
Min Bend Radius/Minor Axis:	1.75 in

#### Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2092
CPR Euroclass:	Eca

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88641, 82641

#### Part Number

#### Variants

Item #	Color	Putup Type	Length	UPC
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
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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## History

Update and Revision:	Revision Number: 0.305 Revision Date: 05-27-2020
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