



**Part Number: 82641**

Audio/Control/Instrumentation, (1 pr) 24 AWG (7x32) TC, FEP/LS PVC, Foil Shld, CMP

## Product Description

One 24 AWG pair stranded (7x32) tinned copper conductors, twisted pair, Teflon® (FEP) insulation, overall Beldfoil shield (100% coverage), Flamarrest® jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	1

Total Number of Conductors:	2
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#### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.006 in

#### Color Chart

Number	Color
1	Black & Red

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.106 in	0.014 in

### Electrical Characteristics

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
31 pF/ft	59 pF/ft

Shielding:	Foil(s) or Copper Tape(s)
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### Construction and Dimensions

Total Number of Pairs:	1
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#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24.1 Ohm/1000ft	17 Ohm/1000ft

#### Current

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

Inductance

Nominal Inductance
0.17 µH/ft

Voltage

UL Voltage Rating
300V RMS

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CMP
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):	2005-04-01
CPR Euroclass:	Eca
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP

Flame Test

CSA Flammability:	FT6
UL Flammability:	NFPA 262

Safety

UL Voltage Rating:	300 V RMS
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Mechanical Characteristics

Operating Temp Range:	0°C To +60°C
Bulk Cable Weight:	8(lbs/1000ft)
Max Recommended Pulling Tension:	16(lbs)
Min Bend Radius/Minor Axis:	1.25(in)

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Plenum Number:	88641

Part Number

Non-Plenum Number:	8641
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History

Variants

Item #	Color
82641 8771000	NATURAL
82641 877U1000	NATURAL

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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