



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

Conductor Count:	2
Total Number of Pairs:	1
AWG Size:	24

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

Conductor DCR

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

Capacitance

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

Inductance

Nominal Inductance
0.17 µH/ft

Current

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

Voltage

UL Voltage Rating
300V RMS

Temperature Range

Operating Temp Range:	0°C To +60°C
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Mechanical Characteristics

Bulk Cable Weight:	8 lbs/1000ft
Max Recommended Pulling Tension:	16 lbs
Min Bend Radius/Minor Axis:	1.25 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6

Part Number

Plenum (Y/N):	Yes
Plenum Number:	88641
Non-Plenum Number:	8641

Variants

Item #	Color	Footnote
82641 8771000	NATURAL	C
82641 877U1000	NATURAL	

Footnote:	C - CRATE REEL PUT-UP.
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