



Part Number: 8641

Single-Pair, (1 pr) 24 AWG (7x32) TC, PE/PVE, Foil Shld, CM

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Product Description

One 24 AWG pair stranded (7x32) tinned copper conductors, twisted pair, polyethylene insulation, overall Beldfoil® shield (100% coverage), PVC 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
Conductor Size:	24 AWG

Insulation

Material	Nominal Wall Thickness
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	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm

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

Shielding:	Foil(s) or Copper Tape(s)
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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 Voltage Rating

300 V RMS (UL AWM Style 2092)

Temperature Range

UL Temp Rating:	60°C (UL AWM Style 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:	UL Style 2092 (300 V 60°C)
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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
UL voltage rating:	300 V RMS (UL AWM Style 2092)

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Footnote
8641 060100	Chrome	
8641 0601000	Chrome	C
8641 060500	Chrome	
8641 0605000	Chrome	
8641 060U1000	Chrome	
8641 060U500	Chrome	

Footnote: C - CRATE REEL PUT-UP.

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