

 **Part Number:** 8641

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

Product Description

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

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	1
Total Number of Conductors:			2

Insulation:

Material	Nominal Wall Thickness
PE - Polyethylene	0.017 in

Color Chart 1:

Number	Color
1	Black & Clear

Outershield 1:

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

Outerjacket 1:

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

Impedance:

Nominal Characteristic Impedance
80 Ohm

Current:

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

Inductance:

Nominal Inductance
0.22 µH/ft

Voltage:

UL Voltage Rating
300 V RMS (UL AWM Style 2092)

Use

Max Recommended Pulling Tension:	11 lbs
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Safety

UL Flammability:	UL1685 UL Loading
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Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	1.75 in
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Part Number

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

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
8641 0601000	CHROME	Reel	1000 ft
8641 060100	CHROME	Reel	100 ft
8641 0605000	CHROME	Reel	5000 ft
8641 060500	CHROME	Reel	500 ft
8641 060U1000	CHROME	UnReel	1000 ft
8641 060U500	CHROME	UnReel	500 ft

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