

## 8641 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### General Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	24	7x32	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.017

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.025

#### Overall Cable

Overall Nominal Diameter: 0.168 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Clear

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To &#43;80°C
UL Temperature Rating:	60°C (UL AWM Style 2092)
Bulk Cable Weight:	12 lbs/1000 ft.
Max. Recommended Pulling Tension:	11 lbs.
Min. Bend Radius/Minor Axis:	1.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2092 (300 V 60°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)
80

#### Nom. Inductance:

Inductance (µH/ft)
.22

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
22

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
42

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
25

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.6

#### Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2092)

#### Max. Recommended Current:

Current
2.2 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8641 060U1000	1,000 FT	14.000 LB	CHROME		1 #24 FS PR PE PVC
8641 060U500	500 FT	7.500 LB	CHROME		1 #24 FS PR PE PVC
8641 060100	100 FT	2.000 LB	CHROME		1 #24 FS PR PE PVC
8641 0601000	1,000 FT	14.000 LB	CHROME	C	1 #24 FS PR PE PVC

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8641 060500	500 FT	7.000 LB	CHROME		1 #24 FS PR PE PVC
8641 0605000	5,000 FT	65.000 LB	CHROME		1 #24 FS PR PE PVC

**Notes:**

C = CRATE REEL PUT-UP.

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