

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 (mm)
PE - Polyethylene	0.432

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 (mm)
PVC - Polyvinyl Chloride	0.635

Overall Cable

Overall Nominal Diameter: 4.267 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Clear

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	60°C (UL AWM Style 2092)
Bulk Cable Weight:	17.858 Kg/Km
Max. Recommended Pulling Tension:	48.930 N
Min. Bend Radius/Minor Axis:	44.450 mm

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

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EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL 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/m)
0.72182

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
72.182

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
137.802

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
82.025

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
47.9026

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	305 MT	6.350 KG	CHROME		1 #24 FS PR PE PVC
8641 060U500	152 MT	3.402 KG	CHROME		1 #24 FS PR PE PVC
8641 060100	30 MT	0.907 KG	CHROME		1 #24 FS PR PE PVC
8641 0601000	305 MT	6.350 KG	CHROME	C	1 #24 FS PR PE PVC
8641 060500	152 MT	3.175 KG	CHROME		1 #24 FS PR PE PVC
8641 0605000	1,524 MT	29.484 KG	CHROME		1 #24 FS PR PE PVC

Notes:

C = CRATE REEL PUT-UP.

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