

82641 Multi-Conductor - Single-Pair Cable

For more Information
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) TC conductors, plenum, FEP insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, Flamarrest® 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.)
FEP - Fluorinated Ethylene Propylene	.006

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 Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	.014

Overall Cable

Overall Nominal Diameter: 0.106 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

Mechanical Characteristics (Overall)

Operating Temperature Range:	0°C To +60°C
Bulk Cable Weight:	8 lbs/1000 ft.
Max. Recommended Pulling Tension:	16 lbs.
Min. Bend Radius/Minor Axis:	1.250 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Flame Test

UL Flame Test:	NFPA 262
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CSA Flame Test:	FT6
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Plenum Number:	88641
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Non-Plenum Number:	8641
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Electrical Characteristics (Overall)**Nom. Inductance:**

Inductance (µH/ft)

.17

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

31

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

59

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24.1

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

17

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.2 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82641 877U1000	1,000 FT	9.000 LB	NATURAL		1 PR #24 FEP FS FLMRST
82641 8771000	1,000 FT	10.000 LB	NATURAL	C	1 PR #24 FEP FS FLMRST

Notes:

C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).