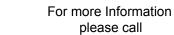
# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# 88641 Multi-Conductor - Single-Pair Cable



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, FEP jacket

# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>
1	24	7x32	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.1524

#### **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	<b>Drain Wire Conductor Material</b>
24	7x32	TC - Tinned Copper

### **Outer Jacket**

#### **Outer Jacket Material:**

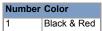
Outer Jacket Material	Nom. Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.3556

### **Overall Cable**

Overall Nominal Diameter: 2.692 mm

#### Pair

### Pair Color Code Chart:



### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C		
Bulk Cable Weight:	13.394 Kg/Km		
Max. Recommended Pulling Tension:	71.171 N		
Min. Bend Radius/Minor Axis:	31.750 mm		

### **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP

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# **Detailed Specifications & Technical Data**

### **METRIC MEASUREMENT VERSION**



# 88641 Multi-Conductor - Single-Pair Cable

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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Flame Test	
UL Flame Test:	NFPA 262
CSA Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Plenum Number:	82641
Non-Plenum Number:	8641

# **Electrical Characteristics (Overall)**

Nom. Inductance:

Inductance (µH/m) 0.55777

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 101.711

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 193.579

Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)** 79.0721

**Nominal Outer Shield DC Resistance:** 

DCR @ 20°C (Ohm/km) 55.777

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
88641 002100	30 MT	1.089 KG	RED		2#24 FEP FS FEP
88641 0021000	305 MT	4.990 KG	RED	С	2#24 FEP FS FEP
88641 002500	152 MT	2.722 KG	RED	С	2#24 FEP FS FEP

Notes:

C = CRATE REEL PUT-UP.

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# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



### 88641 Multi-Conductor - Single-Pair Cable

Revision Number: 2 Revision Date: 09-04-2012

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