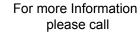
## **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



### 8761 Multi-Conductor - Single-Pair Cable



1-800-Belden1



### **General Description:**

22 AWG stranded (7x30) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

### **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	22	7x30	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 Ty		Outer Shield Material	Coverage (%)
Beldfoil®	Таре	Aluminum Foil-Polyester Tape w/shorting fold	100.000

#### **Outer Shield Drain Wire AWG:**

	_	<b>Drain Wire Conductor Material</b>		
22	Stranded	TC - Tinned Copper		

### **Outer Jacket**

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

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.635

#### **Overall Cable**

#### **Overall Cabling Lay Length & Direction:**

Length (mm)	Direction	Twists (twist/m)
50.800	Left Hand	19.686

Overall Nominal Diameter: 4.445 mm

#### Pair

#### **Pair Color Code Chart:**

Number	Color
1	Black & Clear

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

Operating Temperature Range:	-20°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 2092)
Bulk Cable Weight:	23.811 Kg/Km
Max. Recommended Pulling Tension:	120.101 N
Min. Bend Radius/Minor Axis:	44.450 mm

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# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



### 8761 Multi-Conductor - Single-Pair Cable

App	Applicable Specifications and Agency Compliance (Overall)				
Ар	Applicable Standards & Environmental Programs				
	NEC/(UL) Specification:	СМ			
	NEC Articles:	800			
	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			
Fla	me Test				
	UL Flame Test:	UL1685 UL Loading			
	CSA Flame Test:	FT1			
Su	itability				
	Suitability - Indoor:	Yes			
Ple	num/Non-Plenum				
	Plenum (Y/N):	No			
	Plenum Number:	88761, 87761, 82761			

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.6562

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 78.744

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 154.207

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 52.496

Max. Operating Voltage - UL:

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

Max. Recommended Current:

Description	Current
10C temperature rise	2.9 Amps per conductor @ 25°C ambient

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## **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



### 8761 Multi-Conductor - Single-Pair Cable

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8761 060U1000	1,000 FT	17.000 LB	CHROME		2 #22 PE FS PVC
8761 060U500	500 FT	9.000 LB	CHROME		2 #22 PE FS PVC
8761 060Z1000	1,000 FT	19.000 LB	CHROME		2 #22 PE FS PVC
8761 0601000	1,000 FT	18.000 LB	CHROME	С	2 #22 PE FS PVC
8761 06010000	10,000 FT	170.000 LB	CHROME	CY	2 #22 PE FS PVC
8761 06010001	10,000 FT	170.000 LB	CHROME	CZ	2 #22 PE FS PVC
8761 06015000	15,000 FT	270.000 LB	CHROME	CY	2 #22 PE FS PVC
8761 0602000	2,000 FT	36.000 LB	CHROME		2 #22 PE FS PVC
8761 060500	500 FT	9.000 LB	CHROME		2 #22 PE FS PVC
8761 0605000	5,000 FT	90.000 LB	CHROME	С	2 #22 PE FS PVC

#### Notes:

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2 Revision Date: 08-02-2013

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