# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



## 88760 Multi-Conductor - Single-Pair Cable

For more Information please call

1-800-Belden1



## **General Description:**

18 AWG stranded (19x30) TC conductors, plenum, FEP insulation, twisted pair, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, FEP jacket.

## **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	18	19x30	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.1778

#### **Outer Shield**

#### **Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil® (with shorting fold)	Tape	Aluminum Foil-Polyester Tape	100.000

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

AWG Stranding		Stranding	<b>Drain Wire Conductor Material</b>		
	20	Stranded	TC - Tinned Copper		

## **Outer Jacket**

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

Outer Jacket Material	Nom. Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.356

### **Overall Cable**

Overall Nominal Diameter: 3.632 mm

#### Pair

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



## Pair Lay Length & Direction:

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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C		
UL Temperature Rating:	60C		
Bulk Cable Weight:	34.229 Kg/Km		
Max. Recommended Pulling Tension:	284.685 N		
Min. Bend Radius/Minor Axis:	38.100 mm		

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Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	CMP			
NEC Articles:	800			
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			
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			
Suitability				
Suitability - Indoor:	Yes			
Suitability - Outdoor:	Yes			
Suitability - Burial:	Yes			
Sunlight Resistance:	Yes			
Oil Resistance:	Yes			
Plenum/Non-Plenum				
Plenum (Y/N):	Yes			
Non-Plenum Number:	8760			

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



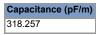
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:



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## 88760 Multi-Conductor - Single-Pair Cable

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 18.0455

**Nominal Outer Shield DC Resistance:** 

DCR @ 20°C (Ohm/km) 23.9513

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current
10C temperature rise	5.4 Amps per conductor @ 25°C ambient

#### **Notes (Overall)**

Notes: For use in indoor plenum environments but also suitable for outdoor and underground applications. Gas/vapor-tight jacket.

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88760 002U1000	1,000 FT	25.000 LB	RED		2 #18 FEP SH FEP
88760 002U500	500 FT	13.000 LB	RED		2 #18 FEP SH FEP
88760 002100	100 FT	3.800 LB	RED		2 #18 FEP SH FEP
88760 0021000	1,000 FT	24.000 LB	RED	С	2 #18 FEP SH FEP
88760 00210000	10,000 FT	240.000 LB	RED	CZ	2 #18 FEP SH FEP
88760 00220000	20,000 FT	500.000 LB	RED	CY	2 #18 FEP SH FEP
88760 002500	500 FT	13.000 LB	RED	С	2 #18 FEP SH FEP
88760 0025000	5,000 FT	120.000 LB	RED		2 #18 FEP SH FEP

#### 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: 5 Revision Date: 07-13-2017

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