

Part Number: 88760

Single-Pair, (1 pr) 18 AWG (19x30) TC, FEP/FEP, Foil Shld, CMP

## Product Description

One 18 AWG stranded (19x30) tinned copper conductors, twisted pair, FEP insulation, Beldfoil® shield, FEP jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	No. of Pairs
18	19x30	TC - Tinned Copper	1
<b>Total Number of Conductors:</b>			2

#### Insulation:

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.007 in

#### Color Chart 1:

Number	Color
1	Black & Red

#### Stranding:

Lay Length	Lay Direction	Twists
2 in	Left Hand	6 twist/ft

#### Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil® with shorting fold	100 %	TC - Tinned Copper	20	Stranded mm

#### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.143 in	0.014 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
5.5 Ohm/1000ft	7.3 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
51 pF/ft	97 pF/ft

### Impedance:

Nominal Characteristic Impedance
29 Ohm

### Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.47 ns/ft	69 %

### Current:

Element	Max. Recommended Current [A]
10C temperature rise	5.4 Amps per conductor @ 25°C ambient

### Inductance:

Nominal Inductance
0.15 µH/ft

### Voltage:

UL Voltage Rating
300 V RMS

## Use

Suitability - Oil Resistance:	Yes
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	64 lbs

## Safety

CSA Flammability:	FT6
UL Flammability:	NFPA 262

## Temperature Range

Operating Temp Range:	-70°C To +200°C
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## Mechanical Characteristics

Min Bend Radius/Minor Axis:	1.5 in
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## Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	8760

## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

## History

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

Part Number	Color	Put-Up Type	Length
88760 00210000	RED	Reel	10000 ft
88760 0021000	RED	Reel	1000 ft
88760 002100	RED	Reel	100 ft
88760 00220000	RED	Reel	20000 ft
88760 0025000	RED	Reel	5000 ft
88760 002500	RED	Reel	500 ft
88760 002U1000	RED	UnReel	1000 ft
88760 002U500	RED	UnReel	500 ft

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