



Part Number: 82760

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

[Request Sample](#)

Product Description

One 18 AWG pair stranded (19x30) tinned copper conductors, twisted pair, FEP insulation, overall Beldfoil® shield (100% coverage), Flammarrest® jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
18	19x30	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	18 AWG

Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.0065 in

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

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

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
LS PVC - Low Smoke Polyvinyl Chloride	Flammarrest®	0.146 in	0.014 in

Construction and Dimensions

Stranding

Lay Direction	Twists
Left Hand	6 twist/ft

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

Shielding:	Foil(s) or Copper Tape(s)
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Inductance

Nominal Inductance

0.15 µH/ft

Impedance

Nominal Characteristic Impedance

35 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

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temp Range: -20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight: 20 lbs/1000ft

Max Recommended Pulling Tension: 64 lbs

Min Bend Radius/Minor Axis: 1.5 in

Standards

NEC Articles: 800

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

CPR Euroclass: Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU: Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-04-01

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Suitability

Suitability - Indoor: Yes

Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262

CSA Flammability: FT6

UL voltage rating: 300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 8760

Variants

Item #	Color	Footnote
82760 8771000	Natural	C

82760 8775000	Natural	
82760 877U1000	Natural	
82760 877U500	Natural	

Footnote:	C - CRATE REEL PUT-UP.
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