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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, Flamarrest® 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	Drain Wire Conductor Material
20	Stranded	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.3556

Overall Cable

Overall Nominal Diameter: 3.708 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

Pair Lay Length & Direction:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 29.764 Kg/Km

Max. Recommended Pulling Tension: 284.685 N

Min. Bend Radius/Minor Axis: 38.100 mm

Applicable Specifications and Agency Compliance (Overall)

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
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Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
35

Nom. Inductance:

Inductance ($\mu\text{H}/\text{m}$)
0.49215

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
167.331

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
318.257

Nominal Velocity of Propagation:

VP (%)
69

Nominal Delay:

Delay (ns/m)
4.82307

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
18.046

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

METRIC MEASUREMENT VERSION

82760 Multi-Conductor - Single-Pair Cable

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82760 877U1000	305 MT	9.525 KG	NATURAL		1 PR #18 FEP FS FLMRST
82760 877U500	152 MT	4.990 KG	NATURAL		1 PR #18 FEP FS FLMRST
82760 8771000	305 MT	9.979 KG	NATURAL	C	1 PR #18 FEP FS FLMRST
82760 8775000	1,524 MT	47.627 KG	NATURAL		1 PR #18 FEP FS FLMRST

Notes:

C = CRATE REEL PUT-UP.

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