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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, 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	Drain Wire Conductor Material
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:

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: -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

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
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:

Impedance (Ohm)

29

Nom. Inductance:

Inductance (µH/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

METRIC MEASUREMENT VERSION

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	C	2 #18 FEP SH FEP
88760 00210000	10,000 FT	240.000 LB	RED	C Z	2 #18 FEP SH FEP
88760 00220000	20,000 FT	500.000 LB	RED	C Y	2 #18 FEP SH FEP
88760 002500	500 FT	13.000 LB	RED	C	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.

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