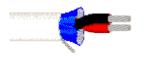
Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

82760 Multi-Conductor - Single-Pair Cable



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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	
Insulation	
Insulation Material:	
Insulation Material Wall Thicknes	ss (in.)
FEP - Fluorinated Ethylene Propylene .007	
Outer Shield	
Outer Shield Material:	
Outer Shield Trade Name Type Outer Shield Mate	rial Coverage (%)
Beldfoil® (Z-Fold®) Tape Aluminum Foil-Poly	vester Tape 100
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 (in.)
Flamarrest® LS PVC - Low Smoke Poly	
Overall Cabling	
Overall Nominal Diameter:	0.146 in.
Pair	
Pair Color Code Chart:	
Number Color	
1 Black & Red	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	22.500 lbs/1000 ft.
Max. Recommended Pulling Tension:	64 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.600 in.
Applicable Specifications and Agency C	
Applicable Standards & Environmental Proc	-
NEC/(UL) Specification:	СМР
CEC/C(UL) Specification:	СМР
EU CE Mark:	Yes

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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82760 Multi-Conductor - Single-Pair Cable

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
C(UL) Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
	8760

Impedance (Ohm)

35 Nom. Inductance:

Inductance (µH/ft)

.15

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

51

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

97

Nominal Velocity of Propagation:

VP (%) 69

Nominal Delay:

Delay (ns/ft) 1.47

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

7.3

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

5.4 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc					
82760 877U1000	1,000 FT	21.000 LB	NATURAL		1 PR #18 FEP FS FLMRST					
82760 877U500	500 FT	11.000 LB	NATURAL		1 PR #18 FEP FS FLMRST					

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ENGLISH MEASUREMENT VERSION



82760 Multi-Conductor - Single-Pair Cable

82760 8771000	1,000 FT	20.000 LB	NATURAL	С	1 PR #18 FEP FS FLMRST

Notes: C = CRATE REEL PUT-UP.

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Introduction

Belden[®] paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Paired Cables Packaging

Belden's unique UnReel[®] cable dispenser is available for many of the paired cable products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

BELDEN

Plenum-Rated

Overall Beldfoil® Shield Audio, Control and Instrumentation Cables

Description	Part	UL NEC/	No. of Pairs	Color Code	Standard Lengths		Stan Unit V	idard Veight		ation (ness	Jac Thick	ket	Nominal OD		Nom	ominal Capa		
	No.	C(UL) CEC Type			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch		pF/ Ft.	pF/ m	pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) Tinne	ed Copp	er Conduc	tors • ⁻	Twisted	Pair • Ov	erall Bel	dfoil S	hield ((100%	o Cov	erage	•) • 22	2 AW	G Stra	andeo	н тс і	Drain	ı Wire
Plenum • FEP Insulation	• Red	FEP Jac	ket															
300V RMS	88761	NEC: CMP CEC: CMP FT6	1	Black, Red	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.7 7.5 7.5 15.0 12.0	1.2 3.4 3.4 6.8 5.5	.006	.15	.014	.36	.119	3.02	35	115	67	220
Plenum • FEP Insulation	• Red	Fluoroco	poly	mer Ja	acket													
300V RMS	87761	NEC: CMP CEC: CMP FT6	1	Black, Red	500 1000	152.4 304.8	7.0 11.0	3.2 5.0	.006	.15	.014	.36	.116	2.95	35	115	67	220
Plenum • FEP Insulation	• Natu	ural Flam	arres	st® Jac	ket													
300V RMS	82761	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500 U-1000 1000	U-152.4 U-304.8 304.8	7.0 14.0 11.0	3.2 6.4 5.0	.006	.15	.014	.36	.116	2.95	35	115	67	220
18 AWG Stranded (19x30) Tinn	ied Cop	per Conduc	tors •	Twisted	Pair • Ov	erall Bel	dfoil S	hield (100%	Cov	erage) • 20) AWC	G Stra	Inded	TC E	Drain	Wire
Plenum • FEP Insulation	• Red	FEP Jac	ket															
300V RMS	88760	NEC: CMP CEC: CMP FT6	1	Black, Red	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.7 12.5 11.0 24.0 22.0	1.7 5.7 5.0 10.9 10.0	.007	.18	.014	.36	.150	3.81	51	167	97	318
Plenum • FEP Insulation	• Red	Fluoroco	poly	mer Ja	icket													
300V RMS	87760	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500 500 1000	U-152.4 152.4 304.8	10.5	5.7 4.8 9.5	.007	.18	.014	.36	.150	3.81	51	167	97	318
Plenum • FEP Insulation	• Natu	iral Flam	arres	st Jacl	(et													
300V RMS Z-Fold® TC = Tinned Copper	82760	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500 U-1000 1000	U-152.4 U-304.8 304.8	12.0 22.0 21.0	5.5 10.0 9.5	.007	.18	.014	.36	.150	3.81	51	167	97	318

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

