## **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

87740 Multi-Conductor - Audio, Control and Instrumentation Cable



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### **Description:**

18 AWG stranded (19x30) tinned copper conductors, plenum, FEP insulation, twisted pair, fluorocopolymer jacket.

Physical Characteristics (Overall)	
Conductor	
AWG:	
# Pairs AWG Stranding Conductor Material   1 18 19x30 TC - Tinned Copper	
Insulation Insulation Material:	
Insulation Material Wall Thickness	s (in.)
FEP - Fluorinated Ethylene Propylene .007	
Outer Shield	
Outer Shield Material:	
Outer Shield Material Unshielded	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (in.)	
PVDF - Fluorocopolymer .011	
Overall Cabling	
Overall Nominal Diameter:	0.136 in.
Pair	
Pair Color Code Chart: Number Color	
1 Black & Red	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +150°C
Bulk Cable Weight:	16.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	49 lbs.
Applicable Specifications and Agency Co	ompliance (Overall)
Applicable Standards & Environmental Progr	
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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
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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:	FT4, FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	9740
Inductance (µH/ft) 0.14 Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft) 20	
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/1000 ft) 5.5	
Nominal Conductor Loop Resistance: Resistance @ 20°C (Ohm/1000 ft) 11	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
87740 0021000	1,000 FT	15.000 LB	RED	С	2#18 FEP SOLEF
87740 002500	500 FT	9.000 LB	RED	С	2#18 FEP SOLEF

Notes: C = CRATE REEL PUT-UP.

### Introduction

Belden<sup>®</sup> 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<sup>®</sup> 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**

Unshielded

Audio, Control and Instrumentation Cables

Description	Part	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
	No.				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	m
AWG Stranded (7x30	) Tinned Co	pper Condu	ctors •	Twisted Pair	S									
enum • FEP Insula	tion • Rec	FEP Jack	cet											
OV RMS	88442	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	2.3 5.5 8.0	1.0 2.5 3.6	.006	.15	.012	.30	.102	2.5
	88741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	500† 1000†	152.4 304.8	8.0 16.0	3.6 7.3	.006	.15	.012	.30	.169	4.2
	88757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	500† 1000†	152.4 304.8	14.0 28.0	6.4 12.7	.006	.15	.012	.30	.200	5.
lenum • FEP Insula	tion • Nat		arrest											
OV RMS	82442	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.112	2.8
	82741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	U-1000† 1000†	U-304.8 304.8	18.0 20.0	8.2 9.1	.006	.15	.014	.36	.179	4.
	82742	NEC: CMP CEC: CMP FT6	3	Black & Red, Black & White, Black & Green	U-1000† 1000†	U-304.8 304.8	24.0 26.0	10.9 11.8	.006	.15	.014	.36	.191	4.
	82757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	1000	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.
	82743	NEC: CMP CEC: CMP FT6	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000 1000	U-304.8 304.8	44.0 46.0	20.0 20.9	.006	.15	.015	.38	.238	6.
<b>AWG</b> Stranded (19x3	0) Tinned C	opper Condi	uctors •	Twisted Pa	ir									
lenum • FEP Insula	,													
OV RMS	89740	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	3.0 9.0 15.0	1.4 4.1 6.8	.006	.15	.009	.23	.136	3.4
lenum • FEP Insula	tion • Rec	l Fluoroco	polym	er Jacket										
	87740	NEC: CMP CEC: CMP FT6	1	Black & Red	500† 1000†	152.4 304.8	9.0 17.0	4.1 7.7	.006	.15	.011	.28	.140	3.
lenum • FEP Insula	tion • Nat	ural Flam	arrest	Jacket										
0V RMS	82740	NEC: CMP	1	Black & Red	U-1000 1000	U-304.8 304.8	17.0 16.0	7.7 7.3	.006	.15	.015	.38	.147	3.

