

## 87740 Multi-Conductor - Audio, Control and Instrumentation Cable



### 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 (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 Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

## 87740 Multi-Conductor - Audio, Control and Instrumentation Cable

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

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

72

### Nom. Inductance:

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	C	2#18 FEP SOLEF
87740 002500	500 FT	9.000 LB	RED	C	2#18 FEP SOLEF

### Notes:

C = CRATE REEL PUT-UP.

# Plenum-Rated




Unshielded

Audio, Control and Instrumentation Cables






Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

**22 AWG** Stranded (7x30) Tinned Copper Conductors • Twisted Pairs

**Plenum • FEP Insulation • Red FEP Jacket**


	<b>88442</b>	NEC:	1	Black & Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
		CMP			500 <sup>†</sup>	152.4	5.5	2.5						
		CEC:			1000 <sup>†</sup>	304.8	8.0	3.6						
		CMP FT6												
	<b>88741</b>	NEC:	2	Black & Red, Black & White	500 <sup>†</sup>	152.4	8.0	3.6	.006	.15	.012	.30	.169	4.29
		CMP			1000 <sup>†</sup>	304.8	16.0	7.3						
		CEC:												
		CMP FT6												
	<b>88757</b>	NEC:	4	Black & Red, Black & White, Black & Green, Black & Blue	500 <sup>†</sup>	152.4	14.0	6.4	.006	.15	.012	.30	.200	5.08
		CMP			1000 <sup>†</sup>	304.8	28.0	12.7						
		CEC:												
		CMP FT6												

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

	<b>82442</b>	NEC:	1	Black & Red	U-1000 <sup>†</sup>	U-304.8	9.0	4.1	.006	.15	.014	.36	.112	2.84
		CMP			1000 <sup>†</sup>	304.8	8.0	3.6						
		CEC:												
		CMP FT6												
	<b>82741</b>	NEC:	2	Black & Red, Black & White	U-1000 <sup>†</sup>	U-304.8	18.0	8.2	.006	.15	.014	.36	.179	4.55
		CMP			1000 <sup>†</sup>	304.8	20.0	9.1						
		CEC:												
		CMP FT6												
	<b>82742</b>	NEC:	3	Black & Red, Black & White, Black & Green	U-1000 <sup>†</sup>	U-304.8	24.0	10.9	.006	.15	.014	.36	.191	4.85
		CMP			1000 <sup>†</sup>	304.8	26.0	11.8						
		CEC:												
		CMP FT6												
	<b>82757</b>	NEC:	4	Black & Red, Black & White, Black & Green, Black & Blue	1000	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
		CMP												
		CEC:												
		CMP FT6												
	<b>82743</b>	NEC:	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000	U-304.8	44.0	20.0	.006	.15	.015	.38	.238	6.05
		CMP			1000	304.8	46.0	20.9						
		CEC:												
		CMP FT6												

**18 AWG** Stranded (19x30) Tinned Copper Conductors • Twisted Pair

**Plenum • FEP Insulation • Red FEP Jacket**

	<b>89740</b>	NEC:	1	Black & Red	100	30.5	3.0	1.4	.006	.15	.009	.23	.136	3.45
		CMP			500 <sup>†</sup>	152.4	9.0	4.1						
		CEC:			1000 <sup>†</sup>	304.8	15.0	6.8						
		CMP FT6												

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

	<b>87740</b>	NEC:	1	Black & Red	500 <sup>†</sup>	152.4	9.0	4.1	.006	.15	.011	.28	.140	3.56
		CMP			1000 <sup>†</sup>	304.8	17.0	7.7						
		CEC:												
		CMP FT6												

**Plenum • FEP Insulation • Natural Flamarrest Jacket**

	<b>82740</b>	NEC:	1	Black & Red	U-1000	U-304.8	17.0	7.7	.006	.15	.015	.38	.147	3.73
		CMP			1000	304.8	16.0	7.3						
		CEC:												
		CMP FT6												

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.