

## 8477 Multi-Conductor - High-Conductivity Copper Speaker Cable Twisted Jacket Con



### Description:

12 AWG stranded (65x30) tinned copper conductors, PVC insulation, twisted pair, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	12	65x30	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.032

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.035

### Overall Cabling

Overall Nominal Diameter: 0.386 in.

### Pair

#### Pair Color Code Chart:

Number	Color
1	Black & White

#### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.400	4.900

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +90°C
Non-UL Temperature Rating:	90°C (UL AWM Style 2587)
Bulk Cable Weight:	77 lbs/1000 ft.
Max. Recommended Pulling Tension:	150 lbs.
Min. Bend Radius (Install)/Minor Axis:	7.700 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL3R
AWM Specification:	UL Style 2587 (600 V 90°C)
EU CE Mark:	Yes

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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:	UL1685 UL Loading
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Inductance:

Inductance (µH/ft)
0.18

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
35

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.8

### Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	CL3R
600 V RMS	UL AWM Style 2587

### Max. Recommended Current:

Current
13 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** See NEC Guidelines for applicable CL3 voltage ratings.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8477 060U500	500 FT	41.500 LB	CHROME		2 #12 PVC FRPVC
8477 0601000	1,000 FT	87.000 LB	CHROME	C	2 #12 PVC FRPVC
8477 060500	500 FT	43.500 LB	CHROME	C	2 #12 PVC FRPVC

### Notes:


C = CRATE REEL PUT-UP.


# Unshielded


Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

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


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

Plenum • FEP Insulation • Red FEP Jacket															
	300V RMS	<b>89740</b>	NEC:	1	Black, Red	100	30.5	3.0	1.4	.006	.17	.009	.23	.136	3.45
			CMP			500 <sup>†</sup>	152.4	9.0	4.1						
			CEC: CMP FT6			1000 <sup>†</sup>	304.8	15.0	6.8						


Plenum • FEP Insulation • Red Fluorocopolymer Jacket															
	300V RMS	<b>87740</b>	NEC:	1	Black, Red	500 <sup>†</sup>	152.4	9.0	4.1	.006	.17	.011	.28	.140	3.56
			CMP			1000 <sup>†</sup>	304.8	15.0	6.8						
			CEC: CMP FT6												

Plenum • FEP Insulation • Natural Flamarrest® Jacket															
	300V RMS	<b>82740</b>	NEC:	1	Black, Red	U-1000	U-304.8	17.0	7.7	.006	.17	.015	.38	.147	3.73
			CMP			1000 <sup>†</sup>	304.8	16.0	7.3						
			CEC: CMP FT6												

**16 AWG** Stranded (19x29) Tinned Copper Conductors • Twisted Pair


PVC Insulation • Chrome PVC Jacket															
	UL AWM Style 2598 (300V 60°C)	<b>8471</b>	NEC:	1	Black, White	U-500	U-152.4	21.0	9.5	.023	.58	.032	.81	.274	6.96
			CMG			500	152.4	20.0	9.1						
			CEC: CMG FT4			U-1000	U-304.8	41.0	18.6						
						1000	304.8	43.0	19.5						

**14 AWG** Stranded (42x30) Tinned Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket															
	UL AWM Style 2587 (600V 90°C)	<b>8473</b>	NEC:	1	Black, White	U-500	U-152.4	29.0	13.2	.031	.79	.032	.81	.340	8.64
			CL3			500	152.4	30.5	13.9						
			CEC: FAS 90 FT4			1000	304.8	58.0	26.4						

See NEC Guidelines for applicable CL3 voltage ratings.

**12 AWG** Stranded (65x30) Tinned Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket															
	UL AWM Style 2587 (600V 90°C)	<b>8477</b>	NEC:	1	Black, White	U-500	U-152.4	41.5	18.8	.032	.81	.035	.89	.386	9.80
			CL3R			500	152.4	43.5	19.7						
						1000	304.8	85.0	38.6						

See NEC Guidelines for applicable CL3 voltage ratings.

<sup>†</sup>Spools are one piece, but length may vary ±10% from length shown.