

## 88489 Multi-Conductor - Audio, Control and Instrumentation Cable

**Description:**

18 AWG stranded (19x30) TC conductors, conductors cabled, plenum, FEP insulation, FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
4	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.)
FEP - Fluorinated Ethylene Propylene	.009

**Overall Cabling****Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	White
3	Red
4	Green

**Overall Nominal Diameter:** 0.156 in.

**Mechanical Characteristics (Overall)**

**Operating Temperature Range:** -70°C To +200°C

**Bulk Cable Weight:** 42 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 100 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 4 in.

**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

**88489 Multi-Conductor - Audio, Control and Instrumentation Cable**

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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

**Flame Test**

C(UL) Flame Test: FT6

**Suitability**

Suitability - Outdoor: Yes

Suitability - Burial: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): Yes

Non-Plenum Number: 8489

**Electrical Characteristics (Overall)****Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

21

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

6.4

**Max. Operating Voltage - UL:**

Voltage

300 V RMS

**Max. Recommended Current:**

Current

7.2 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88489 0021000	1,000 FT	28.000 LB	RED	C	4#18 FEP FEP

**Notes:**

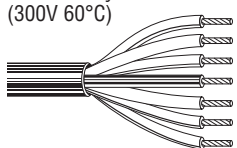
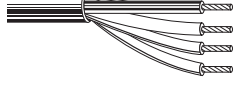
C = CRATE REEL PUT-UP.


## Unshielded

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

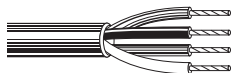
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

### 18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled (continued)


PVC Insulation • Chrome PVC Jacket														
 UL AWM Style 2598 (300V 60°C)	8619	NEC:	19	See Chart 2R (Tech Info Section)	100	30.5	20.3	9.2	.017	.43	.045	1.14	.490	12.45
		CMG			500	152.4	101.0	45.9						
		CEC: CMG FT4			1000	304.8	198.0	90.0						
	9626	NEC:	25	See Chart 2R (Tech Info Section)	100	30.5	29.1	13.2	.017	.43	.060	1.52	.612	15.54
		CMG			500	152.4	139.5	63.3						
		CEC: CMG FT4			1000	304.8	277.0	125.8						

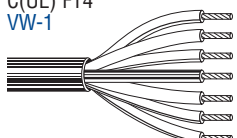
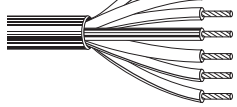







Plenum • FEP Insulation • Red FEP Jacket														
 300V RMS	88489	NEC:	4	Black, White, Red, Green	500 <sup>†</sup>	152.4	14.5	6.6	.007	.18	.009	.23	.161	4.09
		CMP			1000 <sup>†</sup>	304.8	29.0	13.2						
		CEC: CMP FT6												

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket														
 300V RMS	82489	NEC:	4	Black, White, Red, Green	U-1000 <sup>†</sup>	U-304.8	31.0	14.1	.007	.18	.014	.36	.170	4.32
		CMP			1000 <sup>†</sup>	304.8	29.0	13.2						
		CEC: CMP FT6												

### 16 AWG Stranded (19x29) Tinned Copper Conductors • Conductors Cabled

PVC Insulation • Cabled Wire (No Jacket)														
 UL AWM Style 1007 (300V 80°C) VW-1	9498	—	3	Orange, Black, Orange w/ Black Stripe	1000	304.8	42.0	19.1	.027	.69	—	—	.243	6.17

PVC Insulation • Chrome PVC Jacket														
 600V RMS 80°C C(UL) FT4 VW-1	8620	—	4	See Chart 2 (Tech Info Section)	100	30.5	8.9	4.0	.031	.79	.042	1.07	.376	9.55
					500	152.4	44.0	20.0						
					1000	304.8	88.0	40.0						
	9620	—	5	See Chart 2 (Tech Info Section)	100	30.5	11.0	5.0	.031	.79	.042	1.07	.411	10.44
					500	152.4	53.5	24.3						
					1000	304.8	109.0	49.5						
	8621	—	7	See Chart 2R (Tech Info Section)	100	30.5	13.2	6.0	.031	.79	.045	1.14	.458	11.63
					500	152.4	73.5	33.4						
					1000	304.8	143.0	65.0						
	9721	—	8	See Chart 2R (Tech Info Section)	100	30.5	27.3	12.4	.031	.79	.045	1.14	.496	12.60
					500	152.4	136.5	62.0						
					1000	304.8	269.0	122.1						
	9621	—	9	See Chart 2R (Tech Info Section)	100	30.5	17.0	7.8	.031	.79	.045	1.14	.533	13.54
					500	152.4	94.0	42.7						
					1000	304.8	181.0	82.2						
	8622	—	12	See Chart 2R (Tech Info Section)	100	30.5	27.0	12.3	.031	.79	.060	1.52	.627	15.93
					500	152.4	126.5	57.4						
					1000	304.8	251.0	114.0						
	8623	—	15	See Chart 2R (Tech Info Section)	100	30.5	32.5	14.8	.031	.79	.060	1.52	.694	17.63
					500	152.4	155.5	70.6						
					1000	304.8	314.0	142.6						
	8624	—	19	See Chart 2R (Tech Info Section)	100	30.5	36.8	16.7	.031	.79	.065	1.65	.740	18.80
					500	152.4	178.5	81.0						
					1000	304.8	361.0	164.0						
	9622	—	25	See Chart 2R (Tech Info Section)	100	30.5	49.0	22.2	.031	.79	.065	1.65	.879	22.33
					500	152.4	236.0	107.1						
					1000	304.8	480.0	217.9						

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