

Panel Mount Connectors

- Easy Cavity Identification
- Locking Devices are Integral Part of Design. Connector Halves will Hold Together Under Severe Conditions of Vibration and Shock
- Built-In Contact Stabilization and Self-Aligning Features
- Hot Side Egg Crate Design for Safety
- Precision Molded to Exacting Tolerance
- Recommended Panel Thickness, 0.025"-0.065" (0.64-1.65 mm)
- Natural Color UL 94V-2 Rated Nylon — Fully Polarized
- UL Rated for 250 V AC or DC

No. of Circuits	Mounting Hole Dimensions Inches (mm)		Connector Dimensions Inches (mm)	
	A	B	C	D
3	0.910 (23.11)	0.645-0.635 (16.38-16.13)	0.810 (20.57)	0.630 (16.00)
4	1.110 (28.19)	0.845-0.835 (21.46-21.21)	1.010 (25.65)	0.830 (21.08)
6	0.840 (21.34)	0.575-0.570 (14.61-14.48)	0.665 (16.89)	0.565 (14.35)
9	1.075 (27.31)	0.815-0.810 (20.70-20.57)	0.905 (22.99)	0.805 (20.45)
12	1.320 (33.53)	1.055-1.050 (26.80-26.67)	1.145 (29.08)	1.045 (26.54)
15	1.550 (39.37)	1.290-1.285 (32.77-32.64)	1.382 (35.10)	1.280 (32.51)

Pin Housings (Cap)					Socket Housings (Plug)						
Stock No.	Mfr.'s Type	No. of Circuits	EACH			Stock No.	Mfr.'s Type	No. of Circuits	EACH		
			1-99	100-499	500-999				1-99	100-499	500-999
512-1350	1-480305-0	3	.19	.17	.14	512-1300	1-480304-0	3	.22	.20	.17
512-1465	1-480426-0	4	.23	.21	.17	512-1306	1-480425-0	4	.50	.45	.37
512-1355	1-480276-0	6	.38	.34	.28	512-1305	1-480273-0	6	.63	.57	.47
512-1360	1-480277-0	9	.67	.60	.50	512-1310	1-480274-0	9	.75	.67	.56
512-1365	1-480278-0	12	.98	.89	.74	512-1315	1-480275-0	12	.86	.78	.65
512-1370	1-480324-0	15	1.13	1.01	.85	512-1320	1-480323-0	15	1.43	1.28	1.07

Free Hanging Connectors

This version of the MATE-N-LOK® Connector provides all the quality features of the panel mount, yet was designed for free-hanging installations. The 2, 3, and 4 circuit configurations feature detent locking housings while the 6, 8, and 10 circuit configurations utilize positive lock housings. A single circuit connector is available with an option of detent or positive lock housings. The multiple circuit connector is available with an option of detent or positive lock housings. The multiple circuit configurations are polarized to assure proper electrical connections.

No. of Circuits	Mounting Hole Dimensions Inches (mm)			Connector Dimensions Inches (mm)		
	A	B	C	D	E	F
1	0.300 (7.62)	1.200 (30.48)	—	0.260 (6.60)	0.870 (22.10)	—
2	0.610 (15.49)	0.930 (23.62)	—	0.530 (13.46)	0.860 (21.84)	0.295 (7.49)
3	0.810 (20.57)	0.930 (23.62)	0.330 (8.38)	0.825 (20.96)	0.850 (21.59)	0.310 (7.87)
4	1.010 (25.65)	0.930 (23.62)	0.330 (8.38)	1.025 (26.04)	0.850 (21.59)	0.310 (7.87)
6	0.750 (17.95)	—	—	0.610 (15.49)	—	—
8	0.900 (22.84)	—	—	0.805 (20.44)	—	—
10	1.095 (27.81)	—	—	1.000 (25.40)	—	—

Socket Housings (Plug)					Pin Housings (Cap)						
Stock No.	Mfr.'s Type	No. of Circuits	EACH			Stock No.	Mfr.'s Type	No. of Circuits	EACH		
			1-99	100-499	500-999				1-99	100-499	500-999
512-1400	1-480349-0	1	.10	.09	.08	512-1450	1-480351-0**	1	.10	.09	.08
512-1405	1-480318-0	2	.13	.12	.10	512-1451	1-480350-0*	1	.12	.10	.09
512-1410	1-480303-0	3	.24	.23	.18	512-1455	1-480319-0	2	.14	.12	.10
512-1415	1-480424-0	4	.22	.20	.18	512-1350	1-480305-0	3	.19	.17	.14
512-1420	1-480270-0	6	.40	.35	.29	512-1465	1-480426-0	4	.23	.21	.17
512-1422	1-480283-0	8	.41	.37	.31	512-1470	1-480340-0	6	.58	.51	.46
512-1425	1-480285-0	10	.79	.71	.59	512-1472	1-480345-0	8	.62	.56	.51
—	—	—	—	—	—	512-1475	1-480339-0	10	.79	.71	.59

**Positive Lock. *Detent Lock.

Positive Lock Socket Housings (Plug)						
Stock No.	Mfr.'s Type	No. of Circuits	Mates With Pin Headers	EACH		
				1-99	100-499	500-999
512-1406	1-480720-0	2	350539, 350540	.34	.31	.26
512-1412	1-480721-0	3	350541, 350542	.82	.74	.61
512-1416	1-480722-0	4	350543, 350544	.87	.79	.65

Motor Mount Connectors

- Positive Lock
- Dual Row
- UL 94V-2 Nylon, Natural

Mounting Information: 1. Recommended panel thickness "E" is 0.040"-0.100" (1.02-2.54 mm) and is dependent on "T" and "R"; 2. The pin housing must be inserted in a rocking manner; 3. The panel must be punched so that the housing enters the panel in the same direction as the punch. Note: Motor mount housings may be used in flat panels.

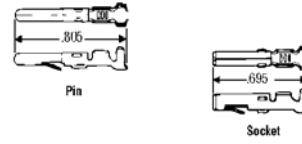
No. of Circuits	Dimensions Inches (mm)		
	A	E	F
6	0.715 (18.16)	0.705 (17.90)	0.610 (15.49)
16	1.690 (42.93)	1.680 (42.67)	1.585 (40.26)

Pin Housings (Cap)					
Stock No.	Mfr.'s Type	No. of Circuits	EACH		
			1-99	100-499	500-999
512-1403	1-480271-0	6	.76	.69	.57
512-1404	1-480439-0	16	1.12	1.01	.84

Socket Housings (Plug)					
Stock No.	Mfr.'s Type	No. of Circuits	EACH		
			1-99	100-499	500-999
512-1420	1-480270-0	6	.40	.35	.29
512-1407	1-480438-0	16	1.47	1.32	1.10

MATE-N-LOK® Contacts

(For All Housings On This Page) — Tin Plated Brass



Stock No.	Mfr.'s Type	Style	AWG	PKG./100	
				1-4	5-9
512-1301	60618-1	Pin	24-18	8.44	7.60
512-1302	60617-1	Socket	24-18	8.34	7.50
512-1401	60620-1	Pin	20-14	8.34	7.51
512-1402	60619-1	Socket	20-14	8.44	7.52

Crimping Tools and Insertion/Extraction Tools



Crimping Tools					
Stock No.	Mfr.'s Type	Description	For AWG	Insulation Diameter (In.)	EACH
512-3425	90123-2	CERTI-CRIMP®	24-18	.060-.100	370.11
512-9004	90124-2	CERTI-CRIMP®	20-14	.100-.130	370.11
512-0027	90574-1	PRO-CRIMPER™II	24-18	.060-.100	183.60
512-0028	90575-1	PRO-CRIMPER™II	20-14	.100-.130	183.60

Insertion/Extraction Tools					
Stock No.	Mfr.'s Type	Description	For AWG	Insulation Diameter (In.)	EACH
512-9155	465644-1	Extraction tool	20-14	—	17.14
512-9160	458830-1	Insertion tool	—	—	23.46