File E28476	Vol. 4 Vol. 90 Vol. 94	Sec. 16 Sec. 4 Sec. 8	Page 1	Issued: Revised:	1980-12-02 2021-11-12
	Vol. 111	Sec. 11			
	Vol. 116	Sec. 1			
	Vol. 145	Sec. 3			
	Vol. 147	Sec. 5			
	Vol. 157	Sec. 2			
		and Report			

DESCRIPTION

PRODUCT COVERED:

Component Connectors - Mini Universal Mate-N-Lok Series.

Cat Nos. 170359, 170359-1, 170361, 170361-1, 170360, 170360-1, 170362, 170362-1, 171636, 171636-1, 172328, 171637, 171637-1, 172336, 172329, 172337, 172330, 172338, 172331, 172339, 172332, 172340, 172333, 172341, 172334, 172342, 172327, 172335, 1-172327-9, 1-172327-6, 1-172327-5, 1-172327-2, 172327-1, 1-172335-9, 1-172335-6, 1-172335-5, 1-172335-2, 172335-1, 172343, 1-172343-9, 1-172343-6, 1-172343-5, 1-172343-2, 172343-1, 172344, 1-172344-9, 1-172344-3, 1-172344-5, 1-172344-2, 172344-1, 2333124, 2333124-5, 2333124-4, 2333124-3, 2333124-2, 2333124-1, 174847, 174847-1, 170360, 170360-8, 170362, 170362-7, 1903747, 1903747-1, 1903747-2, 770847, 770847-1.

GENERAL:

These devices are multi-pole panel mounted connectors employing contacts of the crimp termination type for use with cables and discrete wires.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

<u>Conditions of Acceptability</u> - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

1. These devices should be used only where they will not interrupt the current.

2. These devices have not been tested for current-carrying capability. See CoA #10 for a list of connectors that have been investigated for current-carrying capability.

3. The suitability of the mounting means shall be determined in the end use.

4. The electrical and mechanical suitability of the wiring terminals shall be determined in the end use. Crimp connectors catalog nos. 170359, 170363, 170360, 170364, 170361, 170365, 170362, 170364 have not been evaluated for Conductor Secureness testing.

5. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

6. The suitability of the spacings between adjacent poles and the associated voltage rating shall be determined in the end-use. Dielectric testing has not been performed except for the devices detailed in CoA No. 10 which are rated 600V. These devices were subjected to Dielectric Voltage-Withstand testing at 2200V ac.

File E28476	Vol. 4 Vol. 90 Vol. 94 Vol. 111 Vol. 116 Vol. 145 Vol. 147 Vol. 157	Sec. 16 Sec. 4 Sec. 8 Sec. 11 Sec. 1 Sec. 3 Sec. 5 Sec. 2	Page 2	 1980-12-02 2020-12-04
		and Report		

7. The factory assembled contacts have been investigated for the following wire ranges and maximum tensile forces.

Part Nos.			Wire	Range	Tensile	Force
171636, 171637,	171638,	171639	20) AWG	8	lb
171636, 171637,	171638,	171639	16	5 AWG	20	lb

8. The suitability of the insulating materials used in the molded bodies shall be judged in the end-use equipment.

9. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of $105^{\circ}C$.

10. The following devices have been subjected to the Temperature test with the rated currents and maximum temperature rise values tabulated below.

Cat. No.	Contact Part No.	Wire Size, AWG	Current, A	Maximum Temp Rise (°C)	Maximum Temp (°C)
1903747-1	171636	16	5	4.4	29.4
1903747-1	171636	20	2	1.8	26.8
770847-1	171637	16	5	5.9	30.9
770847-1	171637	20	2	2.0	27.0

Mating Connectors

11. These devices have only been assessed for use with specific types of mating connectors by TE as tabulated below. They have not been assessed to operate with any other similar devices from any other manufacturer.

Cat. No.	Mating connector Cat. No.
1903747-1	172343-1
770847-1	172234-1