

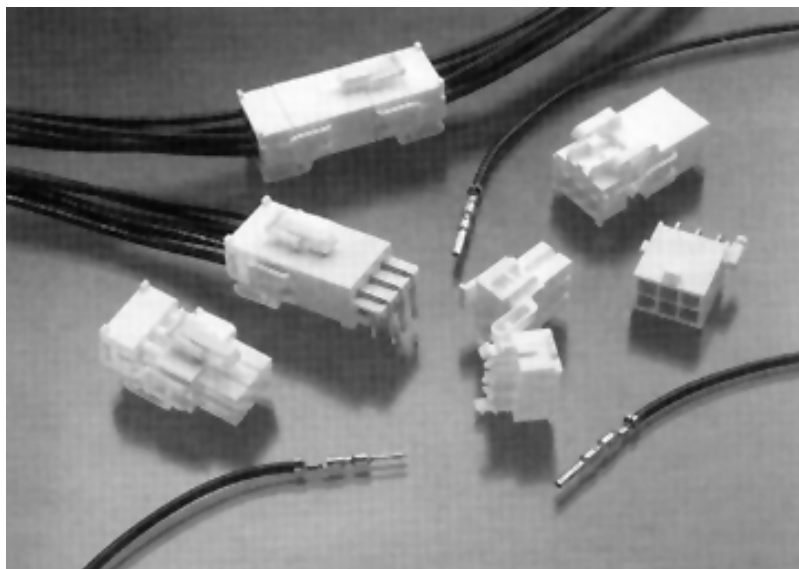
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General Information

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.163" Centerline, 600 V, 9.5 A max. (Mini Universal MATE-N-LOK 2)



Product Facts

- One molded piece, preassembled secondary locking plug and cap housing assemblies
- Three point stabilization to provide terminal position assurance
- Fully polarized to provide proper plug-to-cap mating
- Lanceless contacts for tangle free handling
- Toolless contact removal
- Tin or duplex gold plated contacts
- Available in 2 thru 24 circuit sizes wire-to-wire and wire-to-board
- Mates with standard Mini-Universal MATE-N-LOK headers
- Contacts available in strip and loose piece
- Polarized housing available in UL 94V-0 flammability rated material
- Pins and sockets can be intermixed in the same housing although they cannot be intermixed with standard Mini-Universal Mini-Universal MATE-N-LOK housings
- Contacts accept wire size range 30-16 AWG [.05-1.2 mm²]
- .163 [4.14] centerline spacing
- Not for interrupting current
- Submitted for testing under Component Program of Underwriters Laboratories, Inc.

- Submitted for testing by Canadian Standards Association

Performance Characteristics

The Mini-Universal MATE-N-LOK 2 Connector performance characteristics found below are based on free hanging connectors, loaded with contacts crimped on stranded wire.

Low Level Termination Resistance:

20 milliohms max. total resistance between wire crimps of a mated pin and socket

Dielectric Withstanding Voltage:

1500 V AC or DC between adjacent circuits at sea level

Insulation Resistance:

100 megohms between adjacent circuits

Voltage Rating:

600 V AC or DC

Contact Retention:

20 lb. min. per contact

Durability:

25 cycles, mating and unmating

Current Rating:

up to 10.5 amps per circuit; 2 position

Mating Force:

0.75 lb. max. per circuit

Unmating Force:

0.25 lb. minimum per circuit

Wire Size		Termination Resistance		Contact Crimp Tensile Force	
AWG	mm ²	Test Current (Amps)	Resistance Milliohms (Max. Init.)	Force (Min.)	
				lbs.	N
30	.05	-	-	-	-
28	.08	-	-	-	-
26	.12	-	-	4	18
24	.2	-	-	-	-
22	.3	-	-	11	49
20	.5	-	-	13	58
18	.8	-	-	15	67
16	1.2	-	-	18	80

Mini-Universal MATE-N-LOK 2 Connectors also will withstand the following tests:

Housing Lock Strength:

6 lb. min.

Thermal Shock:

-20°C to +105°C

Temperature-Humidity Cycling:

25°C to 65°C at 95 RH

Vibration:

10-55-10 cycles per minute at .06 inch total excursion

Physical Shock:

18 drops, 50 g halfsine at 11 milliseconds

Technical Documents

Product Specifications

108-1693 -- Mini-Universal MATE-N-LOK 2 Connectors

108-1694 -- Mini-Universal MATE-N-LOK 2 Headers

Application Specification

114-1111 -- Mini-Universal MATE-N-LOK 2 Connectors

Instruction Sheet

408-3393 -- Mini-Universal MATE-N-LOK 2 Connectors

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