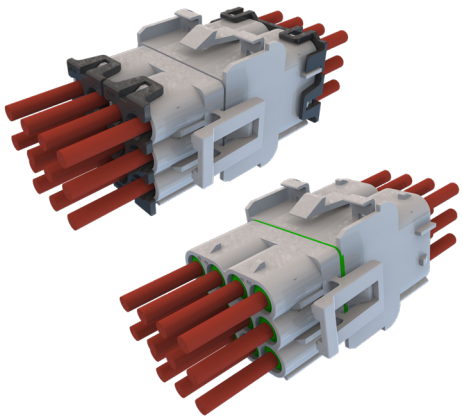

ESSENTIAL UNIVERSAL MATE-N-LOK CONNECTOR WITH WIRE SEAL

ERGONOMIC HIGH-CURRENT WIRE-TO-WIRE SOLUTION WITH ROBUST IP67 SEALING PROTECTION

TE Connectivity(TE)'s latest Essential Universal MATE-N-LOK connector with wire seal, an evolution of the traditional Universal MATE-N-LOK platform, is designed to help deliver reliable sealed performance while maintaining assembly efficiency and design compatibility. Featuring a dual sealing system that integrates a single-wire seal with an interface seal, it provides IP67 protection against moisture and dust, supporting up to 16A (sealed version) in demanding environments.

The single-wire seal design helps deliver reliable sealing performance while enhancing assembly efficiency. It supports a precise fit for individual terminals and provides for automated insertion onto wires. Additionally, the design is compatible with high running housings, which helps streamline part variations and reduce SKU complexity. The sealed plug with an enhanced interface seal helps enable smooth mating and improve locking reliability. An external latch with optional terminal position assurance (TPA) helps ensure secure mating and reliable retention, even in vibration prone applications.

Compatible with existing Universal MATE-N-LOK assemblies, this solution supports a highly efficient upgrade with minimal redesign efforts, suitable for customers seeking robust environmental protection, assembly efficiency, and platform continuity.

ELECTRICAL

- Voltage rating: 600V
- Maximum current*: 17 A (standard) or 16 A (sealed)

MECHANICAL

- Wire Range: 20AWG-14AWG
- Pitch: 6.35 mm
- Position: 2P/3P/4P/6P/9P/12P

MATERIALS

- Contact: Brass / Phosphor Bronze
- Operating Temperature (°C): -55 to +105

STANDARDS AND SPECIFICATIONS

- Product Specification: 108-160572
- Application Specification: 114-160319
- UL 94 V-2
- UL Recognized: File E28476

** the data is based on 2P connector with 14 AWG brass terminal*

KEY FEATURES

- Dual sealing with a single-wire and interface seal provides IP67 protection against moisture and dust, while supporting up to 16A current
- Single-wire seal provides an accurate fit for each terminal and supports automated insertion onto wires, while also being compatible with high running housings to simplify part variations and help reduce SKU complexity
- Latest interface seal and low insertion force terminal design helps smooth mating and easy terminal insertion from multiple angles
- An external latch, along with an optional terminal position assurance (TPA), helps prevent incomplete insertion and guard against accidental back-out or un-mating
- Compatible with the existing Universal MATE-N-LOK family, providing for easy upgrades with minimal redesign effort

APPLICATION



HVAC equipment



Elevator and lift system



Industrial machinery

PART NUMBER - STANDARD VERSION

Housing

Positions	Cap Part Number	Cap TPA	Plug Part Number	Plug TPA
2P	2406821-1	2406825-1	2406822-1	2406825-1
3P	2406819-1	2406824-1	2406820-1	2406824-1
4P	2406817-1	2406823-1	2406818-1	2406823-1
6P	2406815-1	2410990-1	2406816-1	2410990-1
9P	2406813-1	2410990-1	2406814-1	2410990-1
		2406824-1		2406824-1
12P	2406811-1	2411254-1	2406812-1	2410990-1 x 2
		2406823-1		

Terminal

Type	Wire Range (AWG)	Material	Part Number
Pin	14–16	Brass	2406831-1
		Phosphor Bronze	2406831-2
	18–20	Brass	2406832-1
		Phosphor Bronze	2406832-2
Socket	14–16	Brass	2406833-1
		Phosphor Bronze	2406833-2
	18–20	Brass	2406834-1
		Phosphor Bronze	2406834-2

Terminal Position Assurance (TPA)

Positions	Part Number
2P	2406825-1
3P	2406824-1
4P	2406823-1
6P	2410990-1
8P	2411254-1

PART NUMBER - SEALED VERSION

Housing

Position	Cap Part Number	Plug Part Number	Interface Seal Part Number
2	2406821-1	2501791-1	2410996-1
3	2406819-1	2501792-1	2410995-1
4	2406817-1	2501793-1	2410994-1
6	2406815-1	2501788-1	2410993-1
9	2406813-1	2501789-1	2410992-1
12	2406811-1	2501790-1	2410991-1

Terminal

Type	Wire Range (AWG)	Material	Part Number	Wire Seal Part Number	Wire OD Range(mm)
Pin	14–16	Brass	2406835-1	2410997-1	2.3–2.9
		Phosphor Bronze	2406835-2		
	18–20	Brass	2406836-1	2410998-1	1.5–2.3
		Phosphor Bronze	2406836-2		
Socket	14–16	Brass	2406837-1	2410997-1	2.3–2.9
		Phosphor Bronze	2406837-2		
	18–20	Brass	2406838-1	2410998-1	1.5–2.3
		Phosphor Bronze	2406838-2		

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07-26