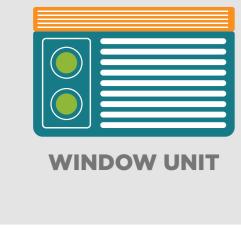
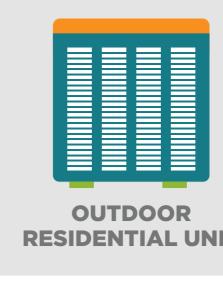
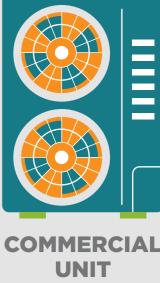


### HVAC SYSTEMS IN HARSH CONDITIONS









### **OFF YOUR SEARCH!** CONNECTIVITY SOLUTIONS FOR YOUR HVAC SYSTEM

TAKE THE HEAT

#### building. HVAC systems are exposed to harsh environments ranging from extreme heat to frigid temperatures — both inside and outside the system.

The components in your design must withstand dust, debris, thermal shock, condensation, humidity, and corrosion. Choosing weak components can reduce

ISSUE

Water ingress

Condensation from hot and cold weather

Indoor humidity and moisture

Moisture inside the HVAC

Damaged building materials and **HVAC** system components

**RESULT** 

Deteriorating exterior wall assemblies

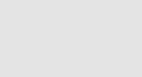
Damaged building materials and **HVAC** system components

molds, bacteria, and insect pests within HVAC systems Adverse health effects for building inhabitants

Damaged buildings and components, plus damp conditions that if prolonged could lead to growth of

AT TO LOOK FOR I COMPONENTS













### **UNIVERSAL MATE-N-LOK** CONNECTORS • Housings that feature positive

#### Resistant to high-current shock (gold plating options) Cap and plug housings and headers

available in material meeting the GWT

requirement according to IEC 60335-1 5th edition, as well as the UL 94-VO • IP67 rated protection against water and dust

polarization, positive locking, and

rear cavity identification for easy,

error-resistant assembly

- **CENTERLINE (MM):**
- **WIRE RANGE (AWG):**



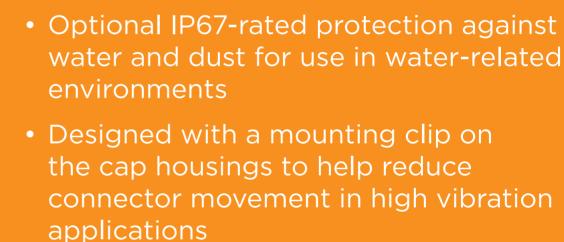
Voltage rating (V): 600VAC/VDC



**UL 94-VO** 

FLAMMABILITY: -55°C to 105°C (125°C available)





**Current rating (A): 15A MAX** 

**Voltage rating (V): 600VAC** 

**Operating temp range:** 

-40°C to 105°C



2.5MM SEALED SIGNAL DOUBLE LOCK CONNECTOR





**Current rating (A): 3A MAX** 

**Voltage rating (V): 250VAC** 

PRODUCT PROFILE STATS

POSITIONS:

# **WIRE SIZE (AWG):**

**CONFIGURATIONS:** 2 - 13 positions WTB, 2 – 10 positions WTW **Operating temp range:** -30°C to 105°C

**RAST 5 CONNECTORS** 

• Offer better performance in terms

of corrosion resistance, insertion

• Resistant to high-current shock —

Meet UL 94-VO and GWT 750°C

without flame compliant models

wear resistance, and current-

carrying capacity

silver plating options

CENTERLINE (MM): -

**WIRE SIZE (AWG):** 

22-18

## POSITIONS: **Current rating (A): 20A Voltage rating (V): 600VAC**

**CONFIGURATIONS:** 

W-B

-40°C to 120°C

TRIPLE-TESTED

**Operating temp range:** 

## TE Connectivity (TE) products go through three advanced tests

**MECHANICAL** 

**TEST** 

operations in harsh

• Sinusoidal/random

temperature and humidity

Normal force and LLCR

vibration with

Durability

tester

environments

To withstand long-To withstand the impact of high current and term, high-intensity

 Low-level contact resistance • Dielectric withstanding voltage

**TESTS PERFORMED** 

- Temperature rise vs. current • EMC

**ENVIRONMENTAL TEST** To withstand thermal shock, condensation, and humidity, and rising temperature

reduce corrosion

Dust and water

flame

• HASS/HALT

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• GWT, HWI, and needle

• Current-carrying capacity

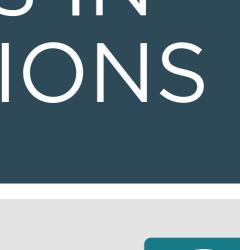
**CONNECT WITH TE** 

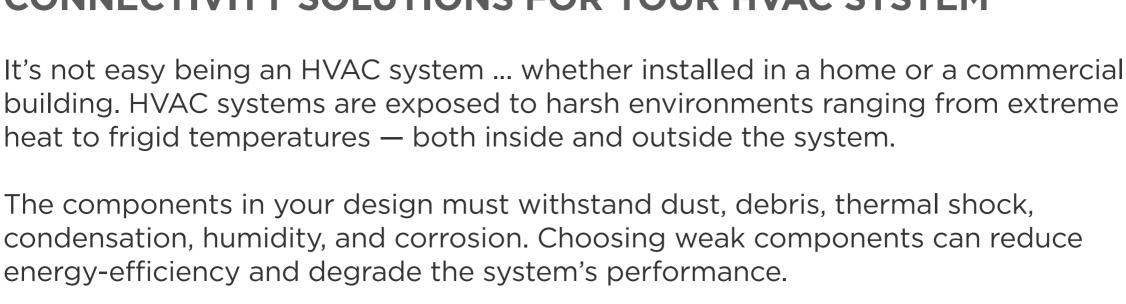
• Temperature and humidity • Thermal shock • Temperature cycling • Salt spray • Mixed flowing gas

**Contact Us** 

Web Page

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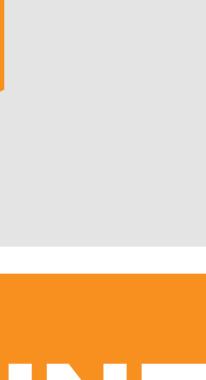




Damp indoor environments

Waterproof















inserted into housing for maximum

• Terminals are polarized to prevent

incorrect insertion and help reduce assembly errors • Offers flexible design options with free hanging and panel mount

sealing capabilities

configurations

**CENTERLINE (MM):** 

- **FLAMMABILITY: UL 94-VO, GWT**
- PRODUCT PROFILE STATS
  - FLAMMABILITY: UL 94-VO, GWT



TO MEET YOUR REQUIREMENTS

to ensure they meet your strict HVAC design requirements.







1-4, 6, 9