

HVAC SYSTEMS IN HARSH CONDITIONS



WINDOW UNIT





UTDOOR RESIDENTIAL UNIT



COMMERCIAL UNIT

TAKE THE HEAT **OFF YOUR SEARCH!**

CONNECTIVITY SOLUTIONS FOR YOUR HVAC SYSTEM

It's not easy being an HVAC system ... whether installed in a home or a commercial 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 energy-efficiency and degrade the system's performance.

ISSUE	RESULT
Water ingress	Deteriorating exterior wall assemblies
Condensation from hot and cold weather	Damaged building materials and HVAC system components
Indoor humidity and moisture	Damaged building materials and HVAC system components
Moisture inside the HVAC	Damaged buildings and components, plus damp conditions that if prolonged could lead to growth of molds, bacteria, and insect pests within HVAC systems
Damp indoor environments	Adverse health effects for building inhabitants

WHAT TO LOOK FOR IN **COMPONENTS**







Extra locking mechanisms

IP67 rated protection from water and dust

Glow Wire Test (GWT) and UL 94-VO





4 CONNECTORS **THAT CAN WITHSTAND HARSH ENVIRONMENTS**

UNIVERSAL MATE-N-LOK CONNECTORS

- Housings that feature positive polarization, positive locking, and rear cavity identification for easy, error-resistant assembly
- 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



PRODUCT PROFILE STATS

POSITIONS:





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POSITIONS:

POWER VERSA-LOCK CONNECTORS

- Extra locking mechanism that keeps AC equipment clean from debris and free from moisture due to condensation
- Optional terminal position assurance (TPA) or back cover accessory available for higher reliability
- Optional IP67 rated protection against water and dust for use in water-related environments
- Designed with a mounting clip on the cap housings to help reduce connector movement in high vibration



2.5MM SEALED SIGNAL DOUBLE LOCK CONNECTOR

- Designed for reliability with a double-lock plate that helps ensure correct loading and mating of contacts in the housing
- Audible click when contact is fully inserted into housing for maximum sealing capabilities
- Terminals are polarized to prevent incorrect insertion and help reduce assembly errors
- Offers flexible design options with free hanging and panel mount configurations



PRODUCT PROFILE STATS

POSITIONS:





PRODUCT PROFILE STATS



RAST 5 CONNECTORS

- Offer better performance in terms of corrosion resistance, insertion wear resistance, and currentcarrying capacity
- Resistant to high-current shock silver plating options
- Meet UL 94-VO and GWT 750°C without flame compliant models





TRIPLE-TESTED **TO ADDRESS YOUR REQUIREMENTS**

TE Connectivity (TE) products go through three advanced tests to ensure they meet your strict HVAC design requirements.



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