

# Home Appliance Market Landscape

Is your design ready to meet the challenges of today's home appliance trends?

## SITUATION

Safety concerns, connected home trends and market globalization are some of the forces affecting today's home appliance industry. More now than ever, designs need to keep up with cutting-edge technology to meet consumers' expectations while also meeting safety regulations that vary across the global marketplace.



## TREND 1: Importance of Home Appliance Safety

Between 2006 and 2008 in the U.S., major appliances caused over 150,000 residential fires annually, resulting in \$547 million in property damage, 3,670 injuries and 150 fatalities, according to the [Consumer Product Safety Commission](#).

- Human error caused about half of these fires, but problems with the appliances caused the other half. Recalls are costly and can have a lasting negative impact on brand reputation.

## TREND 2: Growing Demand for Connected Appliances

Smart appliances simplify tasks, such as synchronizing cooking times between the microwave and oven and inventorying the refrigerator to generate a digital shopping list—all from the convenience of a smartphone.

- Concurrently, appliances have become more complex. The more components there are in appliances, the greater the risk of a failure.
- The risk rises as more appliance components are manufactured and sourced globally.

## TREND 3: Space-Constrained Profiles Require Flexibility

Leading appliance manufacturers serve global markets. Increased consumer power in developing regions also drives demand for new paradigms in appliance design.

- The global supply chain poses challenges due to differing safety and testing requirements. A circuit board, for example, may require three different SKUs for the same part, depending on the region in which it will operate. That translates into higher inventory.
- As more OEMs move to a global platform, they prefer connectors that meet all safety and environmental requirements across regions.

## WHAT'S TRENDING

# A Connector Portfolio That Addresses the Design Challenges of Today's Home Appliance Market

Molex connector portfolio delivers innovative connectivity solutions needed for safe, reliable and innovative home appliance designs.



**Learn more** about Molex Glow-wire Power Connectors at [www.molex.com/GlowWire](http://www.molex.com/GlowWire).

## SOLUTION: An Extensive Glow-Wire/UL-94 Connector Portfolio



- [Molex Glow-Wire-Capable Connectors](#) meet safety and environmental requirements mandated by the home appliance industry.
- Numerous Molex [wire-to-wire](#) and [wire-to-board](#) connector housings are available in both UL 94 and Glow-Wire-compatible materials.
- Many of these connectors deliver design flexibility with a range of styles, configurations and premium features.

## SOLUTION: Delivering Reliable, Cutting-Edge Connectors



- Molex is a leading one-source supplier of cutting-edge [interconnect products for the connected home](#).
- Our team of experts focuses on the design, development and distribution of innovative connectivity solutions for smart home appliance technology.

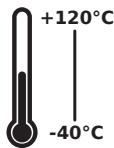
## SOLUTION: Global Presence and Innovative Connectors That Meet Multiple Standards



- Having a global manufacturing and engineering presence, Molex leverages its knowledge of local markets to speed up time to market.
- Molex offers dozens of products that are composed of a resin that makes them both Glow-Wire and UL 94-V0 compliant.
  - Manufacturers can reduce materials and simplify their procurement process and inventory by using one component for products lines that will be sold around the world.

## WHAT'S TRENDING

# Molex Glow-wire Power Connectors Portfolio

	 Pitch	 Current (max.)	 Wire Size	 Operating Temperatures	 Available Configurations
<a href="#">Nano-Fit</a>	2.50mm	8.5A	20-26 AWG	Tin: -40 to +105°C Gold: -40 to +115°C	W-to-B W-to-W
<a href="#">Mini-Lock</a>	2.50mm	3.5A	20-28 AWG	-40 to +105°C	W-to-B W-to-W
<a href="#">Ditto</a>	3.00mm	8.0A	20-26 AWG	-40 to +105°C	W-to-W
<a href="#">Micro-Fit+</a>	3.00mm	12.5A	16-30 AWG	-40 to +105°C	W-to-B
<a href="#">Ultra-Fit</a>	3.50mm	14.0A	16-22 AWG	Tin: -40 to +105°C Gold: -40 to +120°C	W-to-B W-to-W
<a href="#">LINK 396</a>	2.50 and 3.96mm	11.0A	18-20 AWG	-40 to +105°C	W-to-B
<a href="#">Mini-Fit Sigma</a>	4.20mm	13.5A	16-24 AWG	-40 to +105°C	W-to-B
<a href="#">RAST 5</a>	5.00mm	16.0A	14-20 AWG	-20 to +85°C	W-to-B
<a href="#">Mega-Fit</a>	5.70mm	25.0A	12-16 AWG	-40 to +105°C	W-to-B W-to-W
<a href="#">VersaBlade</a>	8.70mm	15.0A	18-24 AWG	PBT: -40 to +120°C GWIT: -40 to +110°C	W-to-W

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