

# LEVELING UP CONVENIENCE FOR EVERY MEAL

Major & Small Kitchen Appliance Product Solutions

# SMART INNOVATIONS FOR HOME APPLIANCES

Bring convenience and comfort to your kitchen with TE Connectivity's (TE) portfolio of connector, relay, terminal and splice that deliver enhanced functionality, sealed protection, and space-saving options. With trends towards more connected devices, engineers need to design for protection and durability while meeting global safety standards. Cook in comfort knowing TE is the a great global partner to bring your next appliance to life for always-on connectivity.

## MAJOR HOME APPLIANCES

Bring convenience and connectivity to your kitchen with the latest smart solutions. At TE, we are introducing new technologies that deliver sustainable living, enhanced functionality, and reliability.

Learn how our wired and wireless technologies, connectors, sensors, and more, can help build the smart appliances of the future. Think smart, worry less by discovering TE's unmatched portfolio of major home appliance product solutions.



## SMALL HOME APPLIANCES

Small appliances are becoming smarter and more efficient to enhance the cooking experience. Our extensive portfolio of connectors, sensors, tubing, relays, and switches improve the efficiency and provide you can count on. This, along with our global engineering expertise and manufacturing capabilities, makes us an a great partner to help connect your smart appliances for a safer, more secure, and connected home.



## TE PRODUCT VALUE



### SEALING

Ingress protection (IP) rating for water, dust, and debris in harsh environments



### RELIABILITY

High power and operating temperatures, locking mechanisms, and vibration resistance



### MINIATURIZATION

Compact centerline and smaller construction size



### SIMPLIFICATION

Insulation displacement (IDC) technology, ease of installation, and simplified assembly processes



### SAFETY

Flame retardant material, ergonomic design, and insulation protection



## SMART KITCHEN PRODUCT SOLUTIONS

When it comes to smart kitchen appliances, we offer products using flame retardant resins that can be solutions for everything from smart refrigerators and cooktops to help ensure your appliances are both reliable and safe. Whether you need a power connector with a smaller footprint or an ergonomic connector that improves assembly efficiency, TE has the products you need to create more efficient and reliable connected home. Think smart, worry less by discovering TE's unmatched portfolio of new and innovative product solutions.

## PRODUCT SOLUTIONS

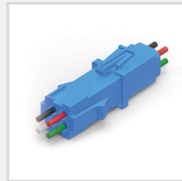
### POWER CONNECTORS



[Economy Power Connectors](#)



[Micro MATE-N-LOK Connectors](#)



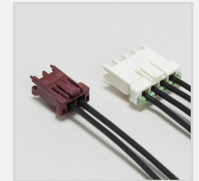
[Mini Universal MATE-N-LOK Connectors](#)



[Universal MATE-N-LOK Connectors](#)



[MTA 156 Connectors](#)



[Power Key Connectors](#)



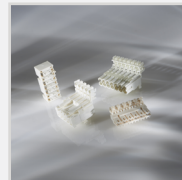
[VAL-U-LOK Connectors](#)



[POWER TRIPLE LOCK Connectors](#)



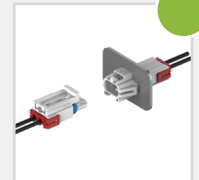
[Power Double Lock Connectors](#)



[RAST Connectors](#)



[GRACE INERTIA Connectors](#)



[Power-Versa Lock Connectors](#)

### SIGNAL CONNECTORS



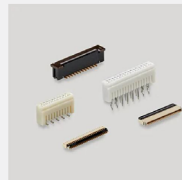
[Signal Double Lock Connectors](#)



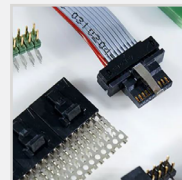
[Signal GRACE INERTIA Connectors](#)



[AMP CT Connectors](#)



[Flexible Printed Circuit \(FPC\) Connectors](#)



[AMP MODU Connectors](#)




[High Performance Interconnects \(HPI\)](#)



[Economy Power 2.5 Connectors](#)



[MTA 100 Connectors](#)

 New product



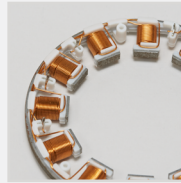
TERMINAL & SPLICES



[MAG-MATE Terminals](#)



[Ultra-Fast Terminals](#)



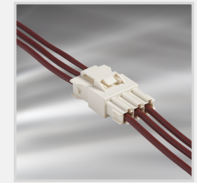
[SIAMEZE Terminals](#)



[AMPLIVAR Terminals](#)



[FASTON Terminals](#)



[FASTIN-FASTON Terminals](#)



[Positive Lock Terminals](#)



[POD-LOK Terminals](#)



[Cluster Block Terminals & Housings](#)



[Wire Splices](#)



[Ring Terminals & Spade Lugs](#)

RESISTORS



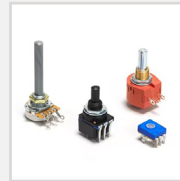
[Chassis Mount Resistors](#)



[Through-Hole Resistors](#)



[Surface Mount Resistors](#)

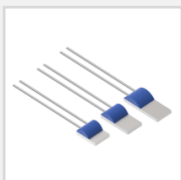


[Potentiometers Resistors](#)



[NTC Thermistors Resistors](#)

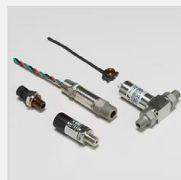
SENSORS



[RTD Platinum Sensors](#)



[Relative Humidity Sensors](#)



[Pressure Sensors](#)



[Thermopile Sensors](#)

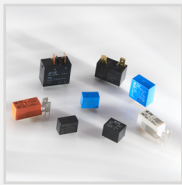


[Magnetic Sensors](#)



## SMART KITCHEN PRODUCT SOLUTIONS

### RELAYS



[PC Board Relays](#)

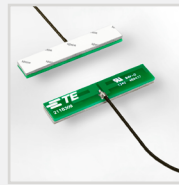


[Potter & Brumfield T9G Relays](#)



[Potter & Brumfield T9A Relays](#)

### ANTENNAS



[Embedded Antennas](#)

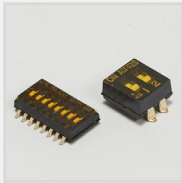


[Custom Antennas](#)



[IoT Antennas](#)

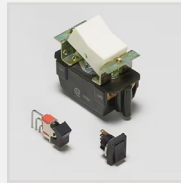
### SWITCHES



[DIP & SIP Switches](#)



[Tactile Switches](#)

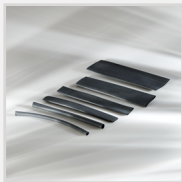


[Rocker Switches](#)



[Snap Action Switches](#)

### TUBING



[VERSAFIT Heat Shrink Tubing](#)



[RW-175 Tubing](#)



[RNF-150 Tubing](#)



[ATUM Tubing](#)

## CONTROL BOARD PRODUCT SOLUTIONS



TE Connectivity's (TE) broad portfolio of connectors, relays, and tubing allow you to optimize control boards within home appliances. With proven quality and reliability, our solutions will help you get your product to market fast. Whether you are designing a board for a blender, air treatment product, coffee maker, floor care, or other home appliance, TE has solutions to simplify your process and improve your design for the next generation of home appliances.

### POWER CONNECTORS



#### [Economy Power II Connectors](#)

- .156" [3.96mm] pitch
- Rated 600VAC at up to 11A
- Well-suited for delivering power to the board with up to 12-positions
- Offer two levels of mechanical and electrical reliability



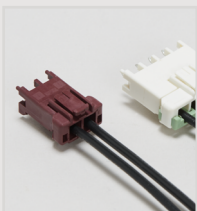
#### [Micro MATE-N-LOK Connectors](#)

- Available in low profile design (<4.7 mm)
- Both single-row and dual-row configurations are available
- Panel mount or free-hanging versions



#### [MTA 100/156 Connectors](#)

- Color coded housing for wire gage
- Tin, 15 and 30 gold plating options
- Audible latch for wire-to-wire (posted) housings
- Insulation displacement (IDC) technology to wire-to-board and wire-to-wire systems



#### [Power Key Connectors](#)

- Power circuit connector with 5.0mm contact centerline
- Wire-to-board connectors: plug housings for wires and PCB header assemblies
- Clear clicking sound easily confirms contact insertions. Double lock plate provides for complete loading of contacts



#### [VAL-U-LOK Connectors](#)

- Ratings up to 9A per line in a 4.2mm pitch wire-to-wire or wire-to-board connectors
- Mate first/break last option on 3 position single row receptacle housings
- As many as 24 positions in dual row configuration with optional TPA

### SIGNAL CONNECTORS



#### [Economy Power 2.5mm Connectors](#)

- Achieve easy mating and unmating with positive audible latch
- Prevent post misalignment with polarization tabs
- Compact 2.5mm centerline



#### [Signal Double Lock Connectors](#)

- Space saving 2.5mm pitch
- Current Rating: 3A
- IP67 class water proofing protection
- Flammability: GWT and UL 94 V-0



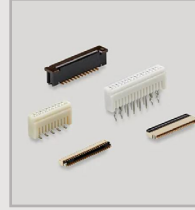
#### [GRACE INERTIA 2.5 Connectors](#)

- Design assures proper insertion, preventing header pin deformation
- Inertia locking mechanism helps prevent unintended disconnection
- Lanceless contacts prevent snagging or entanglement



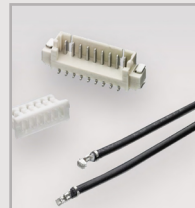
#### [AMP CT Connectors](#)

- Two termination methods: IDC, crimp
- Kinked leg options for self-retention on boards
- IDC AWG 24-28, Crimp AWG 22-30
- RoHS compliant
- Component Program of Underwriters Laboratories Inc., File No. E28476



#### [Flexible Printed Circuit Connectors](#)

- Light weight/high density designs
- Reliably connect with various retention options
- Unique designs like angled insertion to solve design challenges



#### [High Performance Interconnects \(HPI\)](#)

- Achieve low signal/power connections in a 1.0mm to 2.5mm centerline footprint
- Prevent contact stubbing with polarized housings



## TERMINALS & SPLICES



### [FASTON Terminals](#)

- Insulated and uninsulated, straight and flag configurations
- Stress relieved receptacles and various plating options



### [MAG-MATE Terminals and Splices](#)

- High speed, fully automated integrated systems provide uniform magnet wire terminations reliably at the lowest possible applied cost



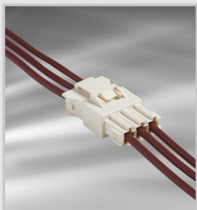
### [Positive Lock Terminals and Housings](#)

- Integral lever locks receptacles onto tabs
- Low insertion force for improved ergonomics
- High temperature housings meet Glow Wire test and UL 94 V-0



### [Ultra-Fast Terminals](#)

- Designed for full mating with a variety of tab styles including those with shoulders
- Terminate 26-10 AWG solid, fused and stranded wire (flags terminate stranded wire only)
- Fully insulated FASTON receptacles



### [FASTIN-FASTON Terminals](#)

- Tabs, receptacles and housings for single and multiple connections
- Terminals have locking lances for retention of contacts in housings
- 110, 187 and 250 series terminals

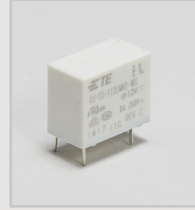
## SWITCHES



### [Tactile Switches](#)

- Achieve any design with choice of actuator lengths and styles
- Support mass fabrication with several mounting options

## RELAYS



### [OJ/OJE/T77 Series Relays](#)

- 1 form A (NO) contacts in various models support a range of loads, with contact ratings from 3 to 10 amps, plus TV-5
- Both sensitive (200mW) and standard (450mW) coil options accommodate various drive circuits



### [T9A Series Relays](#)

- Save PCB space with the smallest relay in its class while maintaining standard footprint
- Achieve a global relay solution with UL, CQC and VDE certifications
- Help provide operator safety through increased insulation (UL 61810-1)



### [PCH Series Relays](#)

- 5 to 10A rating
- 1 form A (NO) and 1 form C (CO) contact arrangements
- Sensitive coil available for 1 form A type



### [RZ Power PCB Relay](#)

- Global standard platform for 16 Amp applications
- Designed to overcome micro welding in the contact interface to improve life time
- Standard versions for 85°C ambient temperature and high temperature versions for 105°C

## TUBING



### [SWFR Heat Shrink Tubing](#)

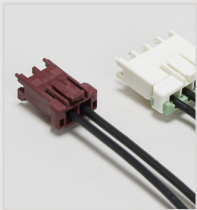
- Insulation and strain relief for fine gauge wire and fiber optic cables
- Moisture, fungus, and weather resistant for outdoor applications
- Thermal insulation of substrates, pipes, hoses and cables

## HEATER SOLUTIONS



TE Connectivity's (TE) broad portfolio of connectors, sensors, relays, and tubing allow you to optimize heaters within home appliances. With proven quality and reliability, our solutions will help you get your product to market fast. Whether you are designing a heater for a toaster, coffee maker, rice cooker, floor care, or other home appliance, TE has solutions to simplify your process and improve your design for the next generation of home appliances.

### POWER CONNECTORS



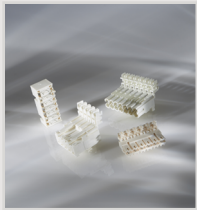
#### [Power Key Connectors](#)

- Power circuit connector with 5.0mm contact centerline
- Wire-to-board connectors: plug housings for wires and PCB header assemblies
- Clear clicking sound easily confirms contact insertions. Double lock plate provides for complete loading of contacts



#### [Micro MATE-N-LOK Connectors](#)

- Available in low profile design (<4.7 mm)
- Both single-row and dual-row configurations are available
- Panel mount or free-hanging versions



#### [RAST Power Connectors](#)

- Achieve high vibration performance and reliability with polarized latching receptacle, and reduce termination time with insulation displacement option
- 250 VAC, 2-16A Current Rating



#### [Universal MATE-N-LOK Connectors](#)

- Centerline: 6.35mm
- Current Rating: 19A
- Voltage Rating: 600 VAC
- Flammability: UL 94 V-0, UL 94 V-2
- 250 VAC

### SIGNAL CONNECTORS



#### [Economy Power 2.5mm Connectors](#)

- Achieve easy mating and unmating with positive audible latch
- Prevent post misalignment with polarization tabs
- Compact 2.5mm centerline



#### [GRACE INERTIA 2.5 Connectors](#)

- Design assures proper insertion, preventing header pin deformation
- Inertia locking mechanism helps prevent unintended disconnection
- Lanceless contacts prevent snagging or entanglement

### TUBING



#### [SWFR Heat Shrink Tubing](#)

- Insulation and strain relief for fine gauge wire and fiber optic cables
- Moisture, fungus, and weather resistant for outdoor applications
- Thermal insulation of substrates, pipes, hoses and cables



#### [DWFR Heat Shrink Tubing](#)

- Highly flame-retardant with UL VW-1 flammability rating
- 3:1 and 4:1 shrink ratios provide design versatility
- Broad range of standard sizes meets many application requirements



## TERMINALS & SPLICES



### Cluster Block Terminals and Housings

- Connect to sealed hermetic headers on compressors
- Accept wire ranging from 25-10 AWG
- Versions available for 2.29 or 3.18mm header pins
- High-performance electrical and mechanical performance



### FASTON Terminals

- Insulated and uninsulated, straight and flag configurations
- Stress relieved receptacles and various plating options



### MAG-MATE Terminals and Splices

- High speed, fully automated integrated systems provide uniform magnet wire terminations reliably at the lowest possible applied cost



### Positive Lock Terminals and Housings

- Integral lever locks receptacles onto tabs
- Low insertion force for improved ergonomics
- High temperature housings meet Glow Wire test and UL 94 V-0



### Ultra-Fast Terminals

- Designed for full mating with a variety of tab styles including those with shoulders
- Terminate 26-10 AWG solid, fused and stranded wire (flags terminate stranded wire only)
- Fully insulated FASTON receptacles

## MOTOR SOLUTIONS



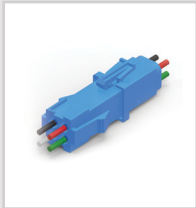
TE Connectivity's (TE) broad portfolio of connectors, relays, and tubing allow you to optimize control boards within home appliances. With proven quality and reliability, our solutions will help you get your product to market fast. Whether you are designing a board for a blender, air treatment product, coffee maker, floor care, or other home appliance, TE has solutions to simplify your process and improve your design for the next generation of home appliances.

### POWER CONNECTORS



#### [Economy Power II Connectors](#)

- .156" [3.96mm] pitch
- Rated 600VAC at up to 11A
- Well-suited for delivering power to the board with up to 12-positions
- Offer two levels of mechanical and electrical reliability



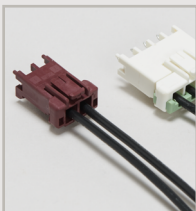
#### [Mini Universal MATE-N-LOK Connectors](#)

- Versatile line includes splash-proof models for applications that require sealing
- 600 VAC, 9.5A Current Rating



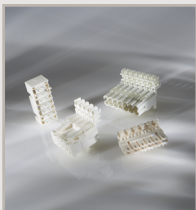
#### [MTA 100/156 Connectors](#)

- Color coded housing for wire gage
- Tin, 15 and 30 gold plating options
- Audible latch for wire-to-wire (posted) housings
- Insulation displacement (IDC) technology to wire-to-board and wire-to-wire systems



#### [Power Key Connectors](#)

- Power circuit connector with 5.0mm contact centerline
- Wire-to-board connectors: plug housings for wires and PCB header assemblies
- Clear clicking sound easily confirms contact insertions. Double lock plate provides for complete loading of contacts



#### [RAST Power Connectors](#)

- Achieve high vibration performance and reliability with polarized latching receptacle, and reduce termination time with insulation displacement option
- 250 VAC, 2-16A Current Rating

### TUBING



#### [SWFR Heat Shrink Tubing](#)

- Insulation and strain relief for fine gauge wire and fiber optic cables
- Moisture, fungus, and weather resistant for outdoor applications
- Thermal insulation of substrates, pipes, hoses and cables

### SWITCHES



#### [Tactile Switches](#)

- Achieve any design with choice of actuator lengths and styles
- Support mass fabrication with several mounting options

### SIGNAL CONNECTORS



#### [AMP CT Connectors](#)

- Two termination methods: IDC, crimp
- Kinked leg options for self-retention on boards
- IDC AWG 24-28, Crimp AWG 22-30
- RoHS compliant
- Component Program of Underwriters Laboratories Inc., File No. E28476



#### [CST Connectors](#)

- Centerline: 2.54mm
- Current Rating: 4A
- Voltage Rating: 250 VAC
- Flammability: UL 94 V-0



#### [Economy Power 2.5mm Connectors](#)

- Achieve easy mating and unmating with positive audible latch
- Prevent post misalignment with polarization tabs



## SIGNAL CONNECTORS



### GRACE INERTIA 2.5 Connectors

- Design assures proper insertion, preventing header pin deformation
- Inertia locking mechanism helps prevent unintended disconnection
- Lanceless contacts prevent snagging or entanglement



### High Performance Interconnects (HPI)

- Achieve low signal/power connections in a 1.0mm to 2.5mm centerline footprint
- Prevent contact stubbing with polarized housings



### Mini AMP-IN Connectors

- Centerline: 2.5mm
- Current Rating: 4A
- Voltage Rating: 250 VAC
- Flammability: UL 94 V-0



### Signal Double Lock Connectors

- Centerline: 2.5mm
- Current Rating: 3A
- Voltage Rating: 250 Volts AC/DC
- Flammability: GWT and UL 94 V-0

## TERMINALS & SPLICES



### AMPLIVAR Terminals and Splices

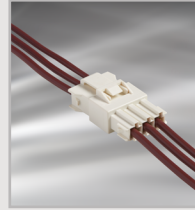
- Up to three magnet wires plus a lead wire in the same crimp
- Cu and Al magnet wire can be combined
- Penetrates the magnet wire insulation while simultaneously terminating wire



### Positive Lock Terminals and Housings

- Integral lever locks receptacles onto tabs
- Low insertion force for improved ergonomics
- High temperature housings meet Glow Wire test and UL 94 V-0

## TERMINALS & SPLICES



### FASTIN-FASTON Terminals

- Tabs, receptacles and housings for single and multiple connections
- Terminals have locking lances for retention of contacts in housings
- 110, 187 and 250 series terminals



### Ring and Spade Terminals

- Versatile mating options support solid or stranded single wire connections
- Offer a range of sizes, materials, configurations and platings to meet specific requirements



### FASTON Terminals

- Insulated and uninsulated, straight and flag configurations
- Stress relieved receptacles and various plating options



### SIAMEZE Terminals

- Insulation displacement crimp (IDC) terminals interconnect copper magnet wires, lead wires, and other components
- Various types accept 36-12 AWG solid or stranded copper wire
- Manual, semi-automated, fully automated systems support efficient wire termination



### MAG-MATE Terminals and Splices

- High speed, fully automated integrated systems provide uniform terminations reliably at the lowest possible applied cost



### Ultra-Fast Terminals

- Designed for full mating with a variety of tab styles including those with shoulders
- Terminate 26-10 AWG solid, fused and stranded wire (flags terminate stranded wire only)
- Fully insulated FASTON receptacles



## POWER CORD SOLUTIONS

TE Connectivity's (TE) broad portfolio of connectors, relays, and tubing products allow you to optimize power cords for home appliances. With proven quality and reliability, our solutions will help you get your product to market fast. Whether you are designing a power cord for a blender or mixer, coffeemaker, rice cooker, floor care, or other home appliance, TE has solutions to simplify your process and improve your design for the next generation of home appliances.

### POWER CONNECTORS



#### Economy Power II Connectors

- .156" [3.96mm] pitch
- Rated 600VAC at up to 11A
- Well-suited for delivering power to the board with up to 12-positions
- Offer two levels of mechanical and electrical reliability



#### MTA-100/156 Connectors

- Color coded housing for wire gage
- Tin, 15 and 30 gold plating options
- Audible latch for wire-to-wire (posted) housings
- Insulation displacement (IDC) technology to wire-to-board and wire-to-wire systems



#### Power Double Lock Connectors

- 1-12 position wire-to-wire or wire-to-board
- Audible click when contact is fully inserted into the housing
- Board-mounted headers are compatible with resin or conformal coatings



#### VAL-U-LOK Connectors

- Ratings up to 9A per line in a 4.2mm pitch wire-to-wire or wire-to-board connectors
- Mate first/break last option on 3 position single row receptacle housings
- As many as 24 positions in dual row configuration with optional TPA
- High current offering can reach 13A

### TERMINALS & SPLICES



#### FASTON Terminals

- Insulated and uninsulated, straight and flag configurations
- Stress relieved receptacles and various plating options



#### Positive Lock Terminals and Housings

- Integral lever locks receptacles onto tabs
- Low insertion force for improved ergonomics
- High temperature housings meet Glow Wire test and UL 94 V-0



#### Ring and Spade Terminals

- Versatile mating options support solid or stranded single wire connections
- Offer a range of sizes, materials, configurations and platings to meet specific requirements

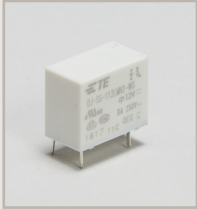


#### Ultra-Fast Terminals

- Designed for full mating with a variety of tab styles including those with shoulders
- Terminate 26-10 AWG solid, fused and stranded wire (flags terminate stranded wire only)
- Fully insulated FASTON receptacles



## RELAYS



### [OJ/OJE/T77 Series Relays](#)

- 1 form A (NO) contacts in various models support a range of loads, with contact ratings from 3 to 10 amps, plus TV-5
- Both sensitive (200mW) and standard (450mW) coil options accommodate various drive circuits



### [PCH Series Relays](#)

- 5 to 10A rating
- 1 form A (NO) and 1 form C (CO) contact arrangements
- Sensitive coil available for 1 form A type



### [RZ Power PCB Relay](#)

- Global standard platform for 16 Amp applications
- Designed to overcome micro welding in the contact interface to improve life time
- Standard versions for 85°C ambient temperature and high temperature versions for 105°C



### [T9A Series Relays](#)

- Save PCB space with the smallest relay in its class while maintaining standard footprint
- Achieve a global relay solution with both UL, CQC and VDE certifications
- Help provide operator safety through increased insulation (UL 61810-1)

## SIGNAL CONNECTORS



### [Economy Power 2.5mm Connectors](#)

- Achieve easy mating and unmating with positive audible latch
- Prevent post misalignment with polarization tabs
- Compact 2.5mm centerline



### [GRACE INERTIA 2.5 Connectors](#)

- Design assures proper insertion, preventing header pin deformation
- Inertia locking mechanism helps prevent unintended disconnection
- Lanceless contacts prevent snagging or entanglement

## TUBING



### [SWFR Heat Shrink Tubing](#)

- Insulation and strain relief for fine gauge wire and fiber optic cables
- Moisture, fungus, and weather resistant for outdoor applications
- Thermal insulation of substrates, pipes, hoses and cables

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