

# OFF-THE-SHELF (OTS) DISCRETE WIRE CABLE ASSEMBLIES

ADDING: Micro-Fit+ PCIe CEM5 Cable Assembly

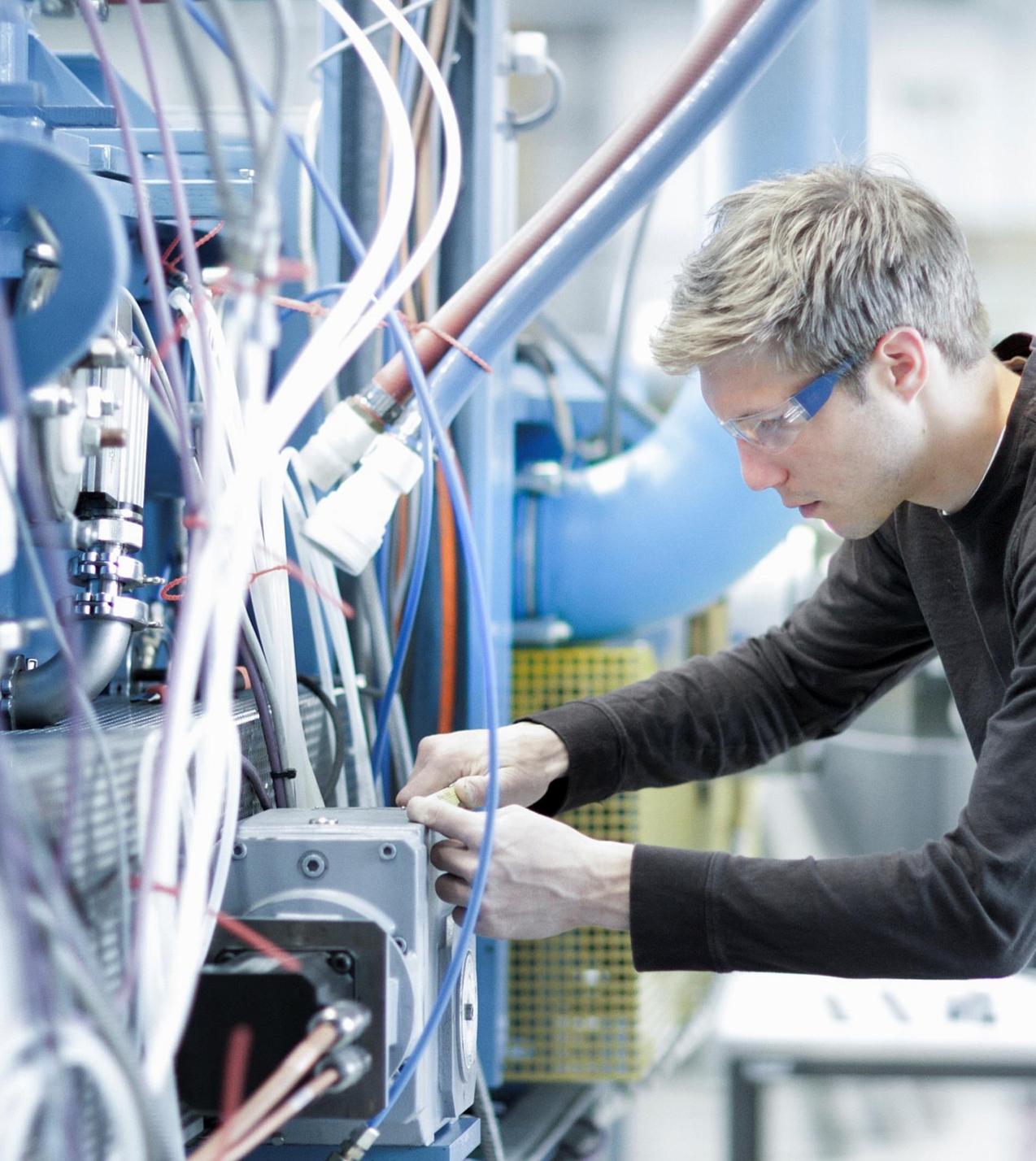
**NPI EXTENSION**

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# CUSTOMER CHALLENGES

## Prototyping for UL Testing

Prototyping cable assemblies requires tooling to crimp terminals. Therefore, costs generated to prototype a system for UL testing can be significant.

## Manufacturing Hurdles

Once prototyping is complete, customers typically need to create drawings and assign resources to find a supplier to build cable assemblies for end products.

## Product Quality

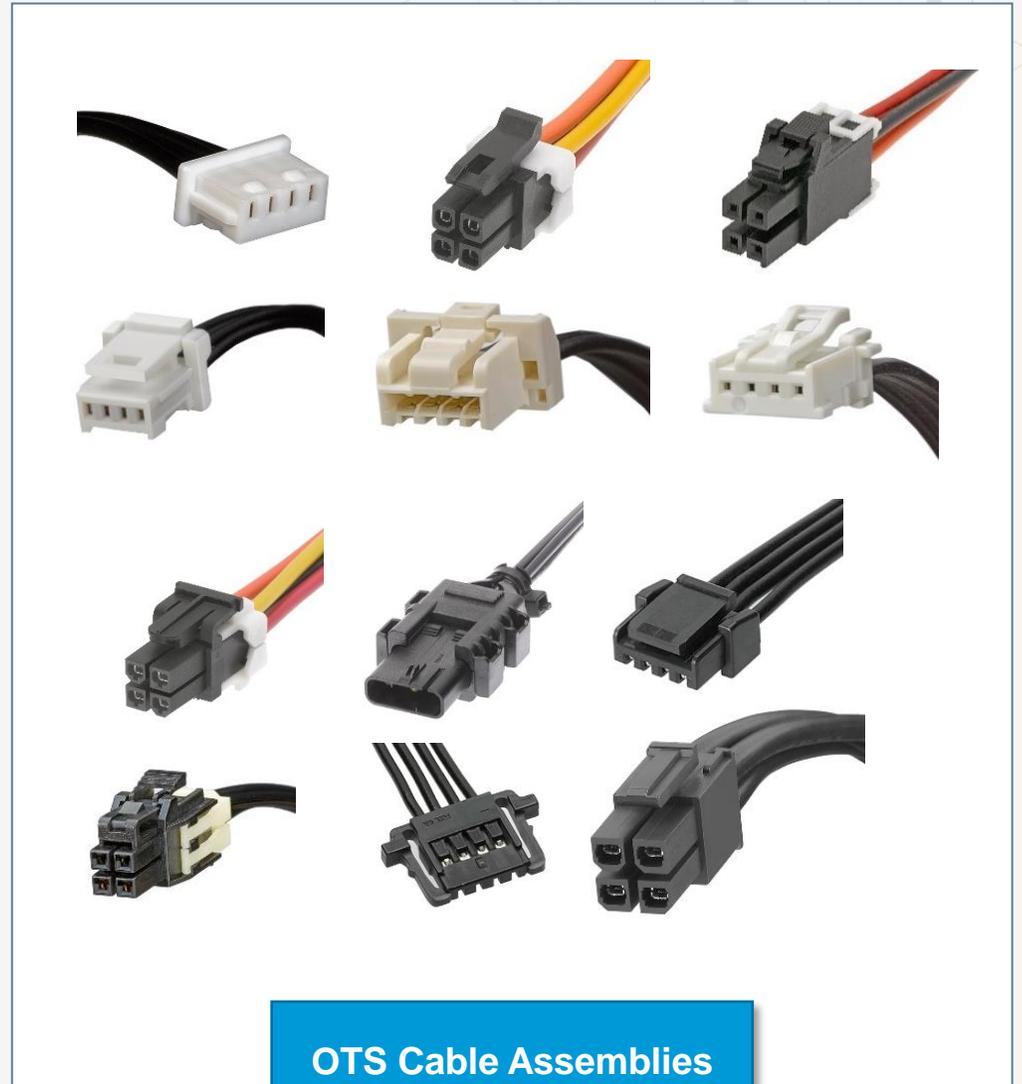
Various connector challenges can result in end-product failures such as mis-mated connectors, terminal backout and other assembly errors.

# Off-the-Shelf (OTS) Discrete Wire Cable Assemblies

Molex Introduces Off-the-Shelf (OTS)  
Discrete Wire Cable Assemblies

Standard discrete wire cable assemblies deliver OTS solutions with a broad offering of Molex connectors and a variety of cable lengths to facilitate both prototyping and global production.

Single-row (SR) and double-row (DR) options are available with a variety of connectors for a wide range of applications.



[OTS Cable Assemblies  
Web Overview](#)

# Cable Assembly Features and Advantages

## PICO-LOCK STANDARD DISCRETE CABLE ASSEMBLIES



**Pico-Lock Cable Assembly offers a low profile, high current and positive locks**

Ideal for applications requiring space savings and secure mating retention

## PICO-CLASP STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**Pico-Clasp Cable Assembly offers a small 1.00mm pitch and 1.0A current rating with positive lock**

Delivers space savings and prevents wire hooking

## PICOBLADE STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**PicoBlade Cable Assembly capable of carrying a maximum 1.0A of current with 1.25mm pitch**

Provides the same current as 2.00mm pitch systems but in a more compact design. Ideal for high-density harness applications

# Cable Assembly Features and Advantages

## OTS PICO-SPOX 1.5 TIN DISCRETE WIRE CABLE ASSEMBLIES



**Pico-Spox 1.5 Tin Discrete Wire Cable Assemblies deliver up to 3.0A of current and offer a variety of circuit sizes**

Provides latch protection with unique friction lock and helps secure terminal retention; Facilitates both prototyping and global preproduction

## PICO-EZMATE DISCRETE WIRE CABLE ASSEMBLIES



**Pico-EZmate Discrete Wire Cable Assemblies deliver up to 5.0A of current with 1.00, 1.20 or 1.80mm pitch**

Provides high current capacity for space-constrained applications with a low profile and a dual-locking system for secure retention and reliable operation

## MICROCLASP STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**MicroClasp Cable Assembly capable of carrying a maximum 3.0A of current with 2.00mm pitch**

Provides space savings and easy mating/unmating compared to similar 2.00- and 2.50mm-pitch wire-to-board systems

# Cable Assembly Features and Advantages

## OTS MICRO-LATCH 2.0 DISCRETE WIRE CABLE ASSEMBLIES



**OTS Micro-Latch 2.0 Discrete Wire Cable Assemblies deliver up to 2.5A of current with a 2.00mm pitch and offer a variety of circuit sizes and cable lengths**

Provides compact electrical and mechanical reliability that meets automotive, consumer and manufacturing industry requirements

## OTS MICRO-LOCK PLUS DISCRETE WIRE CABLE ASSEMBLIES



**Micro-Lock Plus Cable Assembly offers 1.25mm-pitch form factor and carries 1.5A with positive lock**

Secures mating retention without sacrificing compactness

## OTS MICRO-LOCK PLUS 2.00MM DISCRETE WIRE CABLE ASSEMBLY



**OTS Micro-Lock Plus 2.0 Discrete SR Cable Assembly offers a 2.00mm pitch in single-row, off-the-shelf Tin-plated solution with a variety of cable lengths**

Delivers secure mating retention without sacrificing compactness. Facilitates both prototyping and global preproduction

# Cable Assembly Features and Advantages

## OTS EDGELOCK DISCRETE WIRE CABLE ASSEMBLIES



**EdgeLock Discrete Wire Cable Assemblies deliver up to 3.0A of current for wire-to-edge applications in a variety of circuit sizes**

Features polarization rib to prevent mis-mating and dual cantilever crimp terminal design for long-term electrical reliability

## OTS MICRO-ONE DISCRETE WIRE CABLE ASSEMBLIES



**Micro-One Discrete Wire Cable Assemblies deliver up to 4.0A of current for harsh environments and demanding applications**

Provides integrated independent secondary lock (ISL) to prevent terminal back-outs and simplify assembly operations

## OTS MILLI-GRID DISCRETE WIRE CABLE ASSEMBLIES



**OTS Milli-Grid Discrete Wire Cable Assemblies offer a 2.00mm pitch and up to 2.0A of current in dual-row solution with a variety of cable lengths**

Delivers blind-mate interface (BMI) capability with a fully shrouded header design for easier installation in confined spaces

# Cable Assembly Features and Advantages

## NANO-FIT TPA STANDARD DISCRETE CABLE ASSEMBLIES



**Nano-Fit TPA Cable Assembly has up to a 6.5A current rating in a small package**

Brings space savings for design flexibility

## OTS MICRO TPA CABLE ASSEMBLIES



**Micro TPA Cable Assemblies delivers off-the-shelf solutions with a broad offering of Molex connectors and uses popular crimp terminals**

Provides ease of design, prototyping and production, meets current cable assembly standards, and ensures availability and wide tooling installation base in market

## OTS MICRO-FIT SR OVERMOLDED CABLE ASSEMBLIES

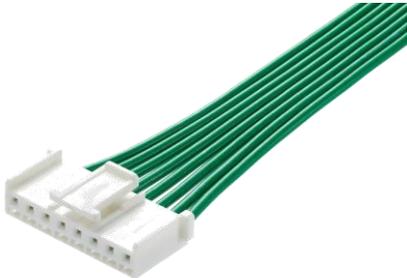


**OTS Micro-Fit Single Row Overmolded Cable Assembly delivers an off-the-shelf solution with a variety of cable lengths and a 3.00mm-pitch connector with a 5.6A maximum current rating**

Provides quick availability for development and production programs and customized versions for final designs

# Cable Assembly Features and Advantages

## OTS MINI-LOCK DISCRETE WIRE CABLE ASSEMBLIES



**Mini-Lock Discrete Wire Cable Assemblies deliver up to 3.5A of current and a 2.50mm pitch with a variety of circuit sizes**

Delivers versatile and proven capability, with terminal position assurance (TPA) and positive lock features available

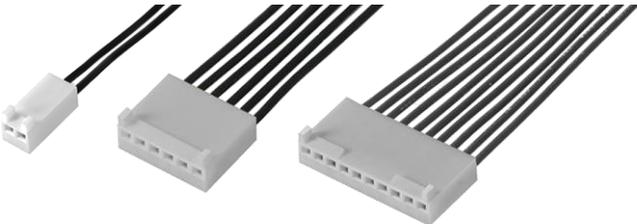
## OTS C-GRID III DISCRETE WIRE CABLE ASSEMBLIES



**C-Grid III Discrete Wire Cable Assemblies deliver up to 3.0A of current with a variety of circuit sizes**

Offers single- and dual-row options with polarization, friction lock and easy breakaway features for design flexibility

## KK AND KK PLUS DISCRETE WIRE CABLE ASSEMBLIES



**KK and KK Plus Discrete Wire Cable Assemblies deliver up to 11.0A of current with several pitch and wire size options**

Delivers extensive wire-to-board and board-to-board versatility with KK Plus high-power connectors and KK low-to-mid-power connectors

# Cable Assembly Features and Advantages

## MICRO-FIT STANDARD DISCRETE WIRE CABLE ASSEMBLIES



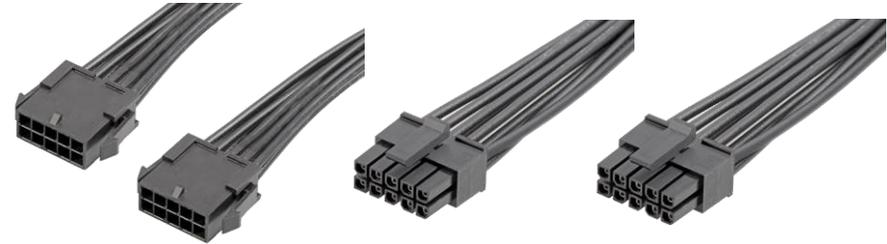
*Non-TPA version*

*TPA version*

**Micro-Fit TPA Cable Assembly has a maximum 5.0A current rating and a 3.00mm pitch**

Delivers a high-density, lower power connection. Reduced terminal back-out

- **Micro-Fit 3.0 Cable Assemblies**

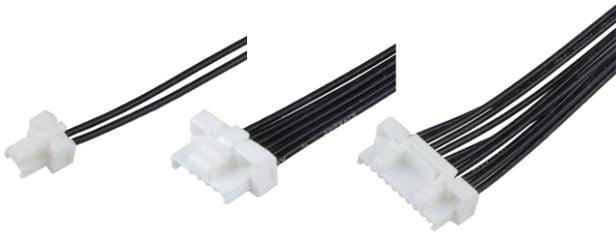


**Micro-Fit 3.0 Cable Assembly delivers a current rating of 6.5 to 8.5A with a 3.00mm pitch in a range of circuits**

Delivers a high-density, lower power connection and design flexibility

# Cable Assembly Features and Advantages

## CLIK-MATE 1.25 STANDARD DISCRETE CABLE ASSEMBLIES



**CLIK-Mate Cable Assembly carries 1.0A  
with a 1.25mm pitch**

Offers more signal lines in less space and  
saves 60% of space than the 2.00mm  
version

## CLIK-MATE 1.5 STANDARD DISCRETE CABLE ASSEMBLIES



**CLIK-Mate Cable Assembly carries 2.5A  
with a 1.50mm pitch**

Offers more signal lines in less space and  
features the widest variety of choices,  
including single- and dual-row types, SMT  
and through-hole versions and a bottom-  
entry option

## CLIK-MATE 2.0 STANDARD DISCRETE CABLE ASSEMBLIES



**CLIK-Mate Cable Assembly carries 3.0A  
with a 2.00mm pitch**

Offers even more signal lines in less space.  
Also, provides the highest current carrying  
capability of 3.0A and 250V.

# Cable Assembly Features and Advantages

## MINI-FIT TPA2 STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**Mini-Fit TPA2 OTS Discrete Wire Cable Assembly capable of carrying 9.0A of power**

Provides ideal current rating for many signal and power applications. Reduces terminal back-out. Compatible with standard Mini-Fit Jr. Headers

## MINI-FIT JR DR CABLE ASSEMBLIES



**OTS Mini-Fit Jr. DR Discrete Wire Cable Assembly delivers an off-the-shelf solution with a variety of cable lengths and a 4.20mm-pitch connector with a 9.0A maximum current rating**

Provides design flexibility and high quality. Designed to support development and production programs. Available with Gold or Tin plating.

## OTS MINI-FIT SIGMA DR DISCRETE WIRE CABLE ASSEMBLIES

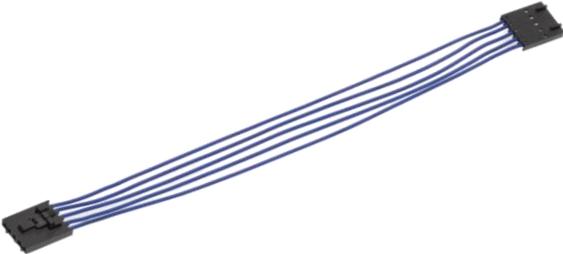


**OTS Mini-Fit Sigma DR Tin Discrete Wire Cable Assemblies deliver up to 11.5A of current and offer a variety of circuit sizes**

Offers positive locking housings for to help prevent accidental unmating; facilitates both prototyping and global preproduction

# Cable Assembly Features and Advantages

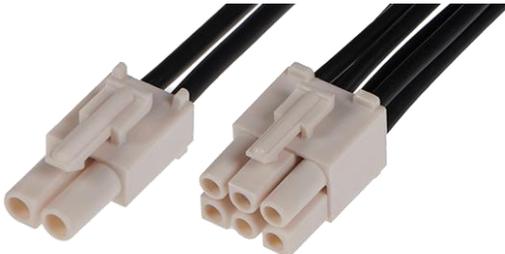
## SL (POSITIVE LOCK) 2.54MM-PITCH DISCRETE WIRE CABLE ASSEMBLIES



**SL (Positive Lock) Discrete Wire Cable Assemblies carry up to 3.0A of power to support a range of wire-to-board applications**

Helps ensure secure retention with connector position assurance positive lock feature

## STANDARD 0.93" 6.70MM-PITCH DISCRETE WIRE CABLE ASSEMBLIES



**Standard .093" Pin-and-Socket Discrete Wire Cable Assemblies deliver up to 17.0A of power with a range of circuit counts and cable lengths available**

Includes polarization, keying and positive lock features for reliable operation in a range of medium-power applications

## OTS SUPER SABRE DISCRETE WIRE CABLE ASSEMBLIES

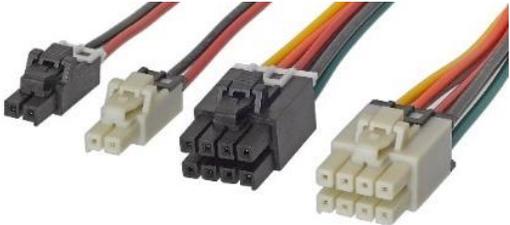


**Super Sabre Discrete Wire Cable Assemblies carry up to 34.0A of power per blade for use in high-current, high-voltage and high-temperature applications**

Delivers design flexibility with low-profile design suitable for temperatures up to +125°C

# Cable Assembly Features and Advantages

## ULTRA-FIT STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**Ultra-Fit OTS Discrete Wire Cable Assembly carries up to 14.0A of power with 17% smaller footprint than similar power connectors**

Provides space savings with optimized current destiny

## MEGA-FIT STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**Mega-Fit OTS Discrete Wire Cable Assembly delivers 23.0A per circuit with a 5.70mm pitch**

Offers more power per linear and square millimeter than most midrange power products

## OTS DURACLICK ISL SR DISCRETE WIRE CABLE ASSEMBLIES



**OTS DuraClik ISL SR Discrete Wire Cable Assemblies deliver up to 3.0A of current and offer a variety of circuit sizes**

Offers independent secondary lock (ISL) to detect incomplete terminal insertion; provides up to 50N of terminal retention force; helps position terminals while meeting stringent automotive requirements; Tin plating

# Cable Assembly Features and Advantages

## IGRID CABLE ASSEMBLIES



**iGrid Cable Assemblies deliver off-the-shelf solutions with pin-to-pin mapping from receptacle to PCB header and meets current cable assembly industry standards**

Provides ready-to-use, plug-and-play connections; ensures high quality and meets current automotive industry standards

## OTS POWERWIZE 6.00MM CABLE ASSEMBLIES



**Mechanically keyed and color coded with uniquely positioned ribs on header housings and matching slots on receptacles (based on connector color)**

Designed to ensure only like-colored connectors mate; helps prevent mis-mating when multiple wire-to-bard or wire-to-busbar interconnects are used in the same application

## SW1 CABLES



**OTS SW1 Cables deliver solutions with a broad offering of Molex connectors and incorporate COEUR socket technology which enables a high-current-carrying capacity in three sizes: 6.00mm (120.0A), 8.00mm (185.0A) and 11.00mm (300.0A) with a unique positive-locking design for secure mating**

Helps ensure minimal contact resistance at the interface between the wire and the crimp barrel; contributes to the system's minimal heat generation in higher-current-carrying capacity compared to other designs

# Cable Assembly Features and Advantages

## MULTICAT STANDARD DISCRETE WIRE CABLE ASSEMBLIES



**MultiCat Cable Assembly delivers a 10 to 40.0A current rating with connector position assurance (CPA) in a small package**

Provides high power and a locking mechanism without sacrificing compactness

## KK PLUS 250 DISCRETE WIRE CABLE ASSEMBLIES



**KK Plus 250 Cable Assembly offers a 2.50mm pitch and is available in a variety of cable lengths**

Facilitates efficient prototyping and global preproduction, while saving time and resources

## MINI-FIT MAX CABLE ASSEMBLIES



**Mini-Fit Max Cable Assembly offers a 4.20mm pitch and is available in a variety of cable lengths**

Supports compact and high-power application demands, for adaptable performance and long-term reliability

# Cable Assembly Features and Advantages

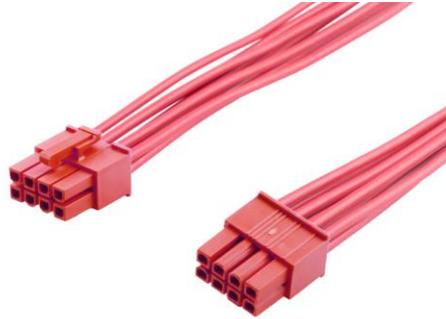
## MINI50 CABLE ASSEMBLIES



**Mini50 Cable Assemblies deliver 50% space savings over traditional USCAR 0.64mm connector systems**

Tested to full USCAR specifications to enhance design flexibility and fit more signals into transportation vehicle interiors

## MINI-FIT VERSA CABLE ASSEMBLIES



**Mini-Fit Versa Cable Assemblies offer several color options and circuit sizes for adaptable use, accurate mating and ease of assembly**

UL 94V-0 Glow Wire combination resin helps reduce expense while allowing customers to meet European electrical standards. Cable assemblies available in red and blue

## ULTRAWIZE CABLE ASSEMBLIES



**UltraWize Cable Assemblies, specifically engineered for data center applications, support minimal heat generation and high current carrying capacity**

The space-saving cable side-exit design eliminates the need to accommodate cable bend radius, for significant space savings and design flexibility

# Cable Assembly Features and Advantages

## ZERO-HACHI CABLE ASSEMBLIES



**Zero-Hachi Cable Assemblies are specifically engineered to address the challenges of shrinking electronic device space availability across industries**

The space-saving low profile height and extensive circuit size range combine with an innovative dual-point contact feature to enhance design flexibility and boost reliability

## MICRO-FIT+ VERSA CABLE ASSEMBLIES



**Micro-Fit+ Versa Cable Assemblies offer a higher current carrying capacity, come in several different colors and are glow wire capable**

Specialized design options help enhance flexibility, facilitate operational safety and support efficient assembly

## MICRO-FIT 3.0 CABLE ASSEMBLIES



**Micro-Fit 3.0 Cable Assemblies support dependable signal or power delivery for space-constrained applications**

Specialized design addresses the need for sustained signal or power while accommodating a maximum current rating of 8.5A

# Cable Assembly Features and Advantages

## OTS MINI-SPOX CABLE ASSEMBLIES



**Mini-SPOX Cable Assemblies are ideal for compact applications; these assemblies ensure proper mating orientation and secure mating retention**

The wire-to-board connectors system provides electrical and mechanical reliability in a high-temperature design that meets automotive, consumer and industrial industry requirements.

## OTS ONEBLADE CABLE ASSEMBLIES



**OneBlade Cable Assemblies provide robust and reliable electrical connectivity; these assemblies offer excellent mating retention and versatile design orientations.**

This wire-to-board connector system has dual-point contact, friction lock and a singular header design for easy configurations and dependable connections in home appliance and networking applications.

# Cable Assembly Features and Advantages

## DURA-CLIK 2.00MM-PITCH CABLE ASSEMBLIES



**DuraClik 2.00mm-Pitch Cable Assemblies delivers up to 2.0A of current in a dual-row solution**

The cable assemblies provide high current carrying capacity and are suitable for industries like automotive, industrial and consumer electronics where compact, high-reliability cable solutions are required.

## MICRO-FIT+ 3.00MM-PITCH CABLE ASSEMBLIES



**Micro-Fit+ 3.00mm-Pitch Cable Assemblies delivers a current rating of 6.5A to 8.5A across a range of circuits.**

The cable assemblies handle up to 8.5A of current that helps support demanding applications within a small footprint, which is beneficial for space-constrained designs.

# Cable Assembly Features and Advantages

## MOX 2.54MM-PITCH DISCRETE WIRE CABLE ASSEMBLIES



**MOX 2.54MM-PITCH DISCRETE WIRE CABLE ASSEMBLIES**  
deliver up to 7.5A of current and voltage 125VRMS MAX

Offers power, Wire-to-Board and Wire-to-Wire connections

## MICRO-FIT+ CEM5 3.00MM-PITCH CABLE ASSEMBLIES



**MICRO-FIT+ CEM5 3.00MM-PITCH CABLE ASSEMBLIES**  
deliver up to 8.5A of current and voltage up to 600V

Ensures reliable signal and power delivery, particularly for applications with space constraints.

# SEALED Cable Assembly Features and Advantages

## OTS MIZU-P25 DISCRETE WIRE SEALED CABLE ASSEMBLIES



**Mizu-P25 Sealed Discrete Wire Cable Assemblies deliver up to 4.0A of current with 2 to 4 circuits in a miniaturized form factor**

Designed to meet automotive standards for reliability in harsh environments, Mizu-P25 cable assemblies are vibration-resistant and IP67-rated for superior dust and water protection

## MX150 DISCRETE WIRE SEALED CABLE ASSEMBLIES



**MX150 Sealed Discrete Wire Cable Assemblies deliver up to 22.0A of current for power and signal applications in harsh environments**

Features a USCAR interface and space-saving design for use in applications subject to high vibration and extreme temperatures

## OTS SQUBA 3.60MM-PITCH DISCRETE WIRE SEALED CABLE ASSEMBLIES



**Squba 3.60mm-Pitch Sealed Discrete Wire Cable Assemblies deliver up to 14.0A of current and an IP68 rating for resistance to water or dust ingress**

Delivers reliable high-power performance for space-constrained applications subject to wet conditions

# SEALED Cable Assembly Features and Advantages

## OTS SQUBA 1.80MM-PITCH DISCRETE WIRE SEALED CABLE ASSEMBLIES



**Squba 1.80mm-Pitch Sealed Discrete Wire Cable Assemblies deliver up to 6.0A of current and an IP68 rating for resistance to water or dust ingress**

Offers miniaturized flexibility for reliable operation in applications subject to water or moisture exposure

## OTS MX64 SEALED CABLE ASSEMBLIES



**MX64 Cable Assemblies are specifically engineered for USCAR compliance and ideal for rugged automotive applications**

The compact design features IP67-rated matte seals, accommodating 18-22 AWG wires and ISO metric wires.

# SEALED Cable Assembly Features and Advantages

OTS SQUBA 1.80MM-PITCH DISCRETE WIRE  
SEALED CABLE ASSEMBLIES



**Squba 1.80mm-Pitch Sealed Discrete Wire Cable Assemblies deliver up to 6.0A of current and an IP68 rating for resistance to water or dust ingress**

Offers miniaturized flexibility for reliable operation in applications subject to water or moisture exposure

# Pre-Crimped Leads

Molex's range of pre-crimped leads offers a simple and cost-effective solution for any pre-production and prototype requirements.

Available for the most popular Molex connector families, the leads are offered in female-to-female and male-to-male configurations and lengths of 75.00 to 600.00mm.



## Speed

Pre-crimped and full test cable decreases time to market

## Variety

Pre-crimped leads are available in multiple lengths, making them ideal for all prototype and pre-production requirements

## Versatility

Leads crimped on both ends for use with wire-to-wire and wire-to-board applications

## Quality

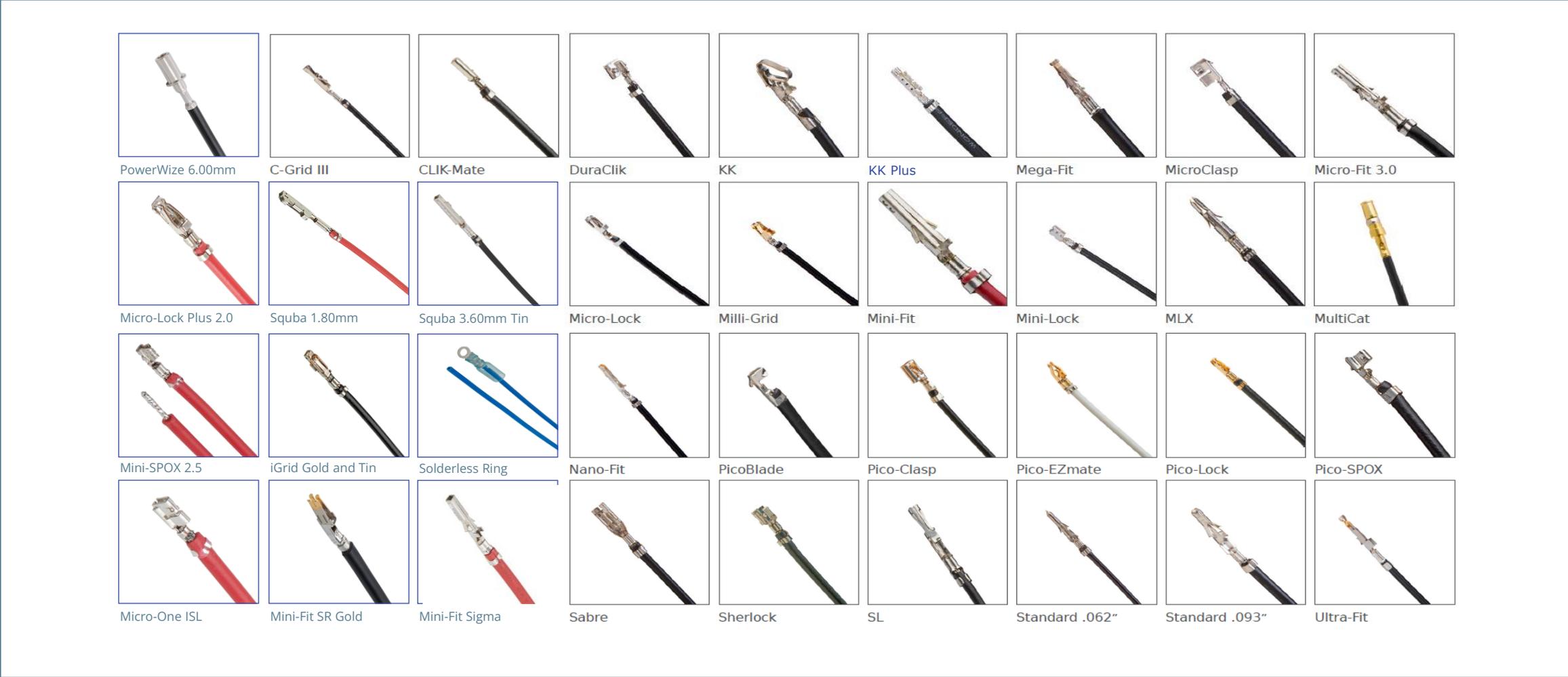
UL-listed cable assures high-quality approved materials

## Choice

Pre-crimped leads are available for most popular Molex product families, helping customers choose the right connector before investing in tooling.

[OTS Pre-Crimped Leads  
Web Overview](#)

# Pre-Crimped Lead Options



# Pre-Crimped Lead Options



Mini-Fit Versa Color



OneBlade



MX64



Zero-Hachi



CP



Micro-Fit+ CEM5



Micro-Fit Plus



CP4.5



Stac64



DuraClik

# Markets and Applications



## CONSUMER

- Consumer
- Home entertainment systems
- Home appliances
- Home security systems
- Portable devices
- Gaming consoles
- Mobile devices



## COMMERCIAL VEHICLE

- Aviation
- Drones
- Commercial aircraft cabins



## INDUSTRIAL AUTOMATION

- Process controls
- Industrial motors



## MEDTECH

- Patient monitors
- Diagnostic equipment

# Further Information

## Datasheets

**Off-the-Shelf Discrete Wire  
Cable Assemblies**

**Off-the-Shelf Pre-Crimped Leads**

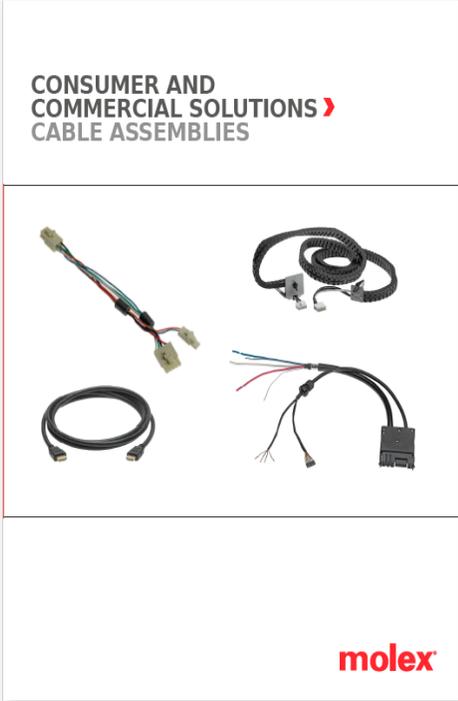
## Web Overview

**Off-the-Shelf Cable Assemblies**

**Off-the-Shelf Pre-Crimped Leads**



## Brochure





Thank You