

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



Standard Discrete Cable Assemblies deliver off-the-shelf (OTS) solutions with a broad offering of Molex connectors and a variety of cable lengths to facilitate both prototyping and global production

Features and Benefits

Custom assemblies for production also available

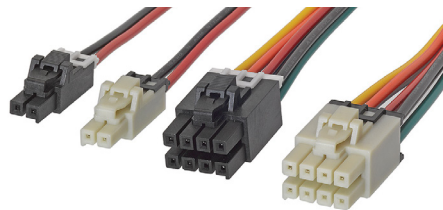
Meet design needs after prototyping is complete. Molex's extensive design and manufacturing expertise can meet the unique challenges of the most demanding applications



PicoBlade Standard Discrete Wire Cable Assembly

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



Ultra-Fit Standard Discrete Cable Assemblies

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

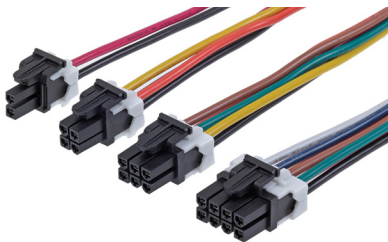
Provides space savings with optimized current density



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

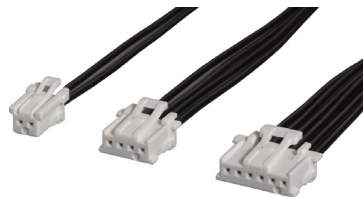
Delivers space savings and prevents wire hooking



Mini-Fit Jr. Standard Discrete Cable Assemblies

Mini-Fit TPA2 Cable Assembly capable of carrying 9.0A of power

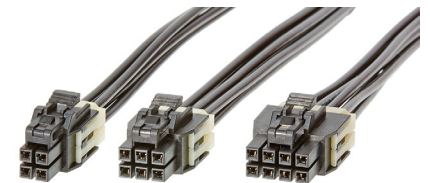
Provides ideal current rating for many signal and power applications. Reduces terminal back-out. Compatible with standard Mini-Fit Jr. headers



MicroClasp Standard Discrete Wire Cable Assemblies

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

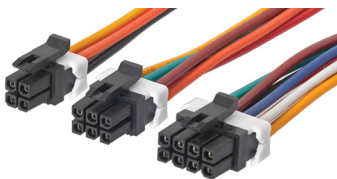
Provides space savings and easy mating/unmating compared to similar 2.00- and 2.50mm-pitch wire-to-board systems



Nano-Fit TPA Standard Discrete Cable Assemblies

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

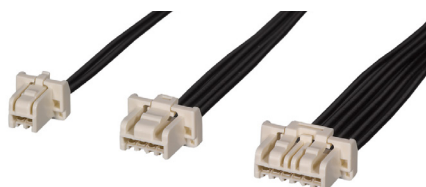
Brings space savings for design flexibility



Micro-Fit Standard Discrete Wire Cable Assembly

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



CLIK-Mate Standard Discrete Cable Assemblies

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

Offers more signal lines in less space



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

Ideal for applications requiring space savings and secure mating retention

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



UL 1061 discrete wires for micro cable assemblies; UL 1007 discrete wires for other assemblies
 Ready to use in electronic appliance applications. Provide ease of design, prototyping and production



PicoBlade Cable Assembly



Nano-Fit TPA Cable Assembly

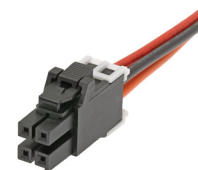
Multi-color cable configurations with Ultra-Fit TPA, Micro-Fit TPA and Mini-Fit TPA2 Connectors available off the shelf
 Designed to support development and production programs. Multi-color cables ensure correct connection



MicroClasp Cable Assembly



Pico-Clasp Cable Assembly



Ultra-Fit TPA Cable Assembly

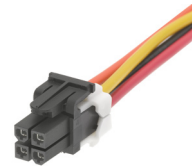
Meets 2011/65/EU RoHS Compliance
 Decreases engineering time and resources

Assembled in ISO/TS16949-certified facilities
 Ensures high quality. Meets current automotive industry standards

Pin-to-pin mapping from receptacle to PCB header
 Provides ready-to-use, plug-and-play connections



Micro-Fit TPA Cable Assembly



Mini-Fit TPA2 Cable Assembly

Applications

Consumer

- Fitness equipment
- Home entertainment systems
- Home appliances
- Home office
- Home security systems
- Portable electronic devices
- Gaming consoles
- Mobile devices

Commercial Vehicle

Industrial

- Process controls

Medical

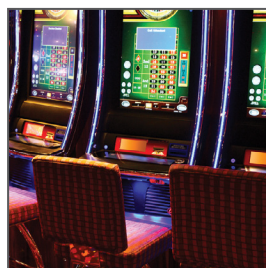
- Patient monitors



CLIK-Mate Cable Assembly



Pico-Lock Cable Assembly



Gaming Machines



Office Equipment



Industrial Automation

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



Specifications

Pico-Clasp Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

Packaging: 50 or 100 SPQ
CABLE UL File No.: UL1061
Mates With: Series 53261, 53047, 53398, 53048
Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 125V
Current (max.): 1.0A
Contact Resistance: 20 milliohms
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance: 100 Megohms

MECHANICAL

Contact Insertion Force (max.): 4.9N
Contact Retention to Housing (min.): 4.9N
Mating Force: See PS51021-001
Unmating Force: See PS51021-001

PHYSICAL

Housing: See PS51021-001
Contact: See PS51021-001
Plating:
Contact Area — Tin
Solder Tail Area — Tin
Underplating — Tin
Operating Temperature: -40 to +85°C

Pico-Lock Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

Packaging: 50 or 100 SPQ
CABLE UL File No.: UL1061
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low Halogen

ELECTRICAL

Voltage (max.): 150V
Current (max.):
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC/1 minute
Insulation Resistance (min.): 100 Megohms

MECHANICAL

Contact Insertion Force (max.): 5N (1.00mm) 10N (1.5mm)
Mating Force (min.): 30 Cycles

PHYSICAL

Housing: Nylon UL 94V-0
Contact: Copper Alloy
Plating:
Contact Area — Gold
Underplating — Nickel
Operating Temperature: -25 to +85°C

PicoBlade Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

Packaging: 50 or 100 SPQ
CABLE UL File No.: UL1061
Mates With: Series 53261, 53047, 53398, 53048
Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 50V
Current (max.): 1.0A
Contact Resistance: 20 milliohms
Dielectric Withstanding Voltage: 250V AC/1 minute
Insulation Resistance (min.): 100 Megohms

MECHANICAL

Contact Insertion Force (max.): 4.9N
Mating Force: 30 Cycles

PHYSICAL

Housing: Nylon UL 94V-0
Contact: Phosphor Bronze
Plating:
Contact Area — Gold
Underplating — Nickel
Operating Temperature: -40 to +85°C

CLIK-Mate Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

UL File No.: E29179
Mates With: Pico-Clasp Headers mate with Pico-Clasp Receptacles
Use with: 501334 and 501193 Crimp Terminals
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

ELECTRICAL

Voltage (max.): 100V AC/DC
Current (max.): 2.0A
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC/1 minute
Insulation Resistance (min.): 500 Megohms

MECHANICAL

Durability: 30 Cycles

PHYSICAL

Housing:
Housing: High-temperature material
Contact: Copper Alloy
Plating:
Contact Area — Tin/Gold
Solder Tail Area — Tin
Underplating — Nickel
Operating Temperature: -25 to +85°C

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



Specifications

MicroClasp Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

Mates With: MicroClasp Headers (Series 55932, 55935)

Use with: Series 56134 Terminals

Designed In: Millimeters

RoHS: Yes

Halogen Free: Low Halogen

ELECTRICAL

Current (max.): 3.0A

MECHANICAL

Durability: 30 Cycles

PHYSICAL

Housing: Nylon

Contact: Copper Nickel Silicon

Plating:

Contact Area – Tin

Operating Temperature: -25 to +85°C

Nano-Fit TPA Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

UL File No.: E29179

CSA File No.: LR19980

IEC File No.: Pending

Mates With: Nano-Fit Connectors and Receptacles only — no competitive cross

Terminal Used: Nano-Fit

Designed In: Millimeters

RoHS: Yes

Halogen Free: Yes

Glow-Wire Compliant: No

ELECTRICAL

Voltage (max.): 300V

Current (max.): 6.5A

Contact Resistance (max.):

10 milliohms change over life

Dielectric Withstanding Voltage: 1600V

Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Mating Force: 3N

Unmating Force: 3N

Durability (min.): 20 tin, 50 gold

PHYSICAL

Housing:

Receptacle: Nylon UL 94V-0

Header: LCP UL 94V-0

Contact: Brass

Plating:

Contact Area — Tin or 381μ (15μ) Gold or 762μ (30μ") Gold

Solder Tail Area — Tin

Underplating — Nickel

Operating Temperature: -40 to +115°C

Micro-Fit TPA Standard Discrete Wire Cable Assemblies

ELECTRICAL

Voltage (max.): 600V

Current (max.): 5.0A

MECHANICAL

Contact Insertion Force (max.): 14.7N per contact

Contact Retention to Housing (min.): 24.5N

Mating Force (max.): 8N per contact

Durability (max.): Typically 30 cycles; refer to product specifications

PHYSICAL

Housing: Nylon

Operating Temperature: -40 to +105°C

Ultra-Fit TPA Standard Discrete Wire Cable Assemblies

REFERENCE INFORMATION

UL File No.: Connector (E29179), Wire (UL 1007)

Mates With: Ultra-Fit Connectors

Use With: Ultra-Fit Headers

Designed In: Millimeters

RoHS: Yes

Halogen Free: No

Glow-Wire Compliant: No

ELECTRICAL

Voltage (max.): 300V

Current (max.): 14.0A

MECHANICAL

Contact Insertion Force (max.): 4.5N Per Circuit

Contact Retention to Housing (max.): 4.0N per circuit

Mating Force (max.): 8N Per Circuit

Durability (min.): 25

PHYSICAL

Housing: Nylon UL 94V-0

Contact: High-Conductivity Copper

Plating:

Contact Area – Tin

Solder Tail Area – Tin

Underplating – Nickel

Operating Temperature: -40° to +105°C

Mini-Fit TPA2 Standard Discrete Wire Cable Assemblies

ELECTRICAL

Voltage (max.): 600V AC/DC

Current (max.): 9.0A

Contact Resistance: 10 milliohm change from initial

Dielectric Withstanding Voltage: 2200V AC

Insulation Resistance: 1000 Megohms

MECHANICAL

Contact Insertion Force: 15N

Contact Retention to Housing: 30N

Mating Force: 14.7N

Unmating Force: 1.0N

Durability (min.): 100 Cycles (Tin); 250 Cycles (Gold)

PHYSICAL

Flammability: UL 94V-0

Housing: Nylon

Contact: Brass or Phosphor Bronze

Plating: Tin

Operating Temperature: -40 to +105°C

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



Ordering Information

Off-the-Shelf Discrete Wire Cable Assemblies

Series No.	Component	Type	Circuits	Length (m)
15131, 15132	Pico-Lock Receptacle	Single	2 to 12	50, 100, 150, 300, 450, 600
15134	PicoBlade Receptacle	Single	2 to 8	50, 100, 150, 300, 450, 600
15133	Pico-Clasp Receptacle	Single	2 to 8	50, 100, 150, 300, 450, 600
15135	CLIK-Mate Receptacle	Single	2 to 8	50, 100, 150, 300, 450, 600
15136	MicroClasp Receptacle	Single	2 to 8	50, 100, 150, 300, 450, 600
45130	Nano-Fit TPA Receptacle	Dual Row	2, 4,6 and 8	150, 300, 1,000
45132	Micro-Fit TPA Receptacle	Dual Row	2, 4,6 and 8	150, 300, 1,000
45135	Mini-Fit TPA2 Receptacle	Dual Row	2, 4,6 and 8	150, 300, 1,000

Ultra-Fit Off-the-Shelf Discrete Wire Cable Assemblies

Series No.	Color	Component	Type	Circuits	Length (mm)
45133	Black	Ultra-Fit TPA Receptacle	Dual Row	2, 4,6 and 8	150, 300, 1,000
45134	White				

Custom Product	Description
Contact Molex	Discrete Wire Cable Assembly Custom lengths and other options

www.molex.com/link/otscableassemblies.html

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