

Ditto Wire-to-Wire Connectors, Positive and Friction Lock Versions

molex

Available in glow wire capable and positive lock versions, Ditto wire-to-wire interconnects halve the tooling and setup costs of low-amperage consumer and lighting applications for increased cost-savings and operational efficiency

Features and Advantages

Glow wire housings

Ensures safety and protection of end-users in the event of glow wire overload

Polarized housing

Prevents mis-mating of connectors

Terminal Position Assurance (TPA)

Prevents accidental terminal back-out during high-vibration conditions

Positive dual lock

Keeps connectors mated during rigorous operations

Terminal serving cavities

Prevents lifting of terminals while maintaining physical and electrical contact with mated terminals

Reinforced wing-style feature

Protects locking lance from operator or assembly-processing damage

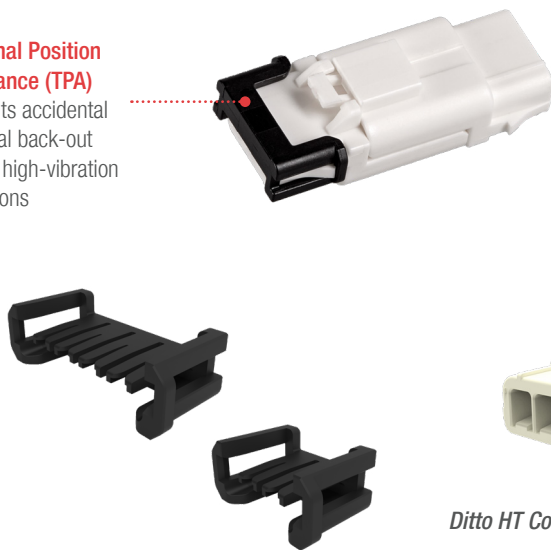
Polarized terminal

Prevents flipped (upside down) insertion into the connector housing

Positive dual lock

Keeps connectors mated during rigorous operations

Comes in a high temperature resin. The terminals have a higher alloy and are now offered in gold plating



Ditto HT Connector

Applications

Consumer / Home Appliances

- Fitness
- Home Appliances
- Home Entertainment
- Home Office
- Home Security



Consumer / Home Appliances / Lighting

Solid State Lighting

- Indoor and Outdoor Illumination
- Displays and Signage
- Transportation Lighting

Automotive (Non-USCAR vehicles)

- 2 and 3 Wheelers
- (motorcycles, scooters, tuk-tuk and more)



2-Wheeler Vehicles



3-Wheeler Vehicles

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Specifications

(Friction Lock version 2.50mm pitch)

REFERENCE INFORMATION

Packaging: Tape and Reel (terminals)

Bag (housing)

UL File No.: E29179

Mates With: 36877

Use With: UL1007 and 1061 wires or equivalent

Terminal Used: 36876

Designed In: Millimeters

RoHS: Yes

ELECTRICAL

Voltage (max.): 8V

Current (max.): 8.0A for 20AWG wires

Contact Resistance (max.): 3.5 milliohms

Dielectric Withstanding Voltage: 1700V AC/minute

Insulation Resistance (min.): 1000 Megohm

MECHANICAL

Contact Insertion Force (max.): 10N

Contact Retention to Housing (min.): 30N

Mating Force (max.): 27N

Unmating Force (min.): 7N

Durability (max.): 25 cycles

PHYSICAL

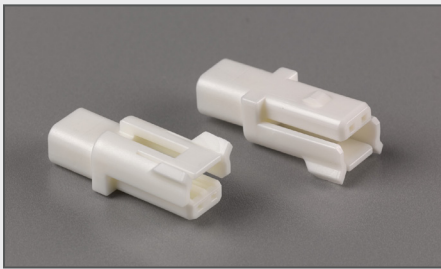
Housing: PA66 UL 94V-0 (non-glow wire capable)

Contact: Tin brass

Plating:

Contact Area: Pre-plated Tin

Operating Temperature: -40 to +105°C



2.50mm pitch Housings
with Friction Lock



2.50mm pitch Mating Condition



Ditto Positive Lock Terminals

(Positive Lock version with TPA 3.00mm pitch)

REFERENCE INFORMATION

Packaging: Tape and Reel (terminals)

Bag (housing)

UL File No.: E29179

VDE File No.: 219197

Mates With: 150170/150201

Use With: UL1007 and 1061 wires or equivalent

Terminal Used: 150200

Designed In: Millimeters

RoHS: Yes

Halogen Free: PA66 - Yes or PA6 - No

Glow Wire Capable and Compliant

with: IEC60335-1

ELECTRICAL

Voltage (max.): 5V

Current (max.): 5.0A for 20AWG wires

Contact Resistance (max.): 10 milliohm

Dielectric Withstanding Voltage: 1700V AC/minute

Insulation Resistance (min.): 1000 Megohm

MECHANICAL

Contact Insertion Force (max.): 15N

Contact Retention to Housing (max.): 25N

Mating Force (max.): 27N

Unmating Force (min.): 5N

Durability (max.): 25 cycles

PHYSICAL

Housing: PA66 UL 94V-0 (non-glow wire capable)

PA6 UL 94V-2 (glow wire capable)

Contact: Tin brass

Plating:

Contact Area: Pre-plated tin

Operating Temperature: -40 to +105°C



3.00mm pitch Housings
with TPA Retainer



Ditto Positive Lock TPA



3.00mm pitch Terminal

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Ordering Information

Series No.	Product Attribute	Circuit Size
36877-0002	2.50mm Pitch Housing	2
36877-0003		3
36877-0004		4
36877-0005		5
36877-0006		6
36877-0007		7
36877-0008		8

Series No.	Product Attribute	AWG
36876-0001	2.50mm pitch Terminal	20 to 22
36876-0002		24 to 26

Series No.	Product Attribute	AWG
150200-0001	3.0mm Pitch Terminal	20 to 22
150200-0002		24 to 26

3.00mm Pitch Housing		Circuit Size
Non Glow wire Housing	Glow wire Housing	
150170-0002	150201-0002	2
150170-0003	150201-0003	3
150170-0004	150201-0004	4
150170-0005	150201-0005	5
150170-0006	150201-0006	6
150170-0007	150201-0007	7
150170-0008	150201-0008	8

3.00mm Pitch TPA Retainer		Circuit Size
Non Glow wire Housing	Glow wire Housing	
150212-0002	150213-0002	2
150212-0003	150213-0003	3
150212-0004	150213-0004	4
150212-0005	150213-0005	5
150212-0006	150213-0006	6
150212-0007	150213-0007	7
150212-0008	150213-0008	8

Non Glow Wire 3.00mm Pitch Housing Pigtail		Wire Length (mm)
150207-0001	2	300
150207-0002	3	
150207-0003	4	
150207-0004	5	
150207-0005	6	
150207-0006	7	
150207-0007	8	
150207-0008	2	
150207-0009	3	
150207-0010	4	
150207-0011	5	
150207-0012	6	
150207-0013	7	
150207-0014	8	

Terminals

Series	Description	AWG
150200	Gold Terminal	20, 22, 24, 26

Receptacles

Series	Description	Row	Circuit
150201	Ditto HT Positive Lock	Single	2 to 8

TPA

Series	Description	Circuit	Color
150212	TPA	2 to 8	Black and Natural

www.molex.com/link/ditto.html