

Ditto Wire-to-Wire Connectors



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

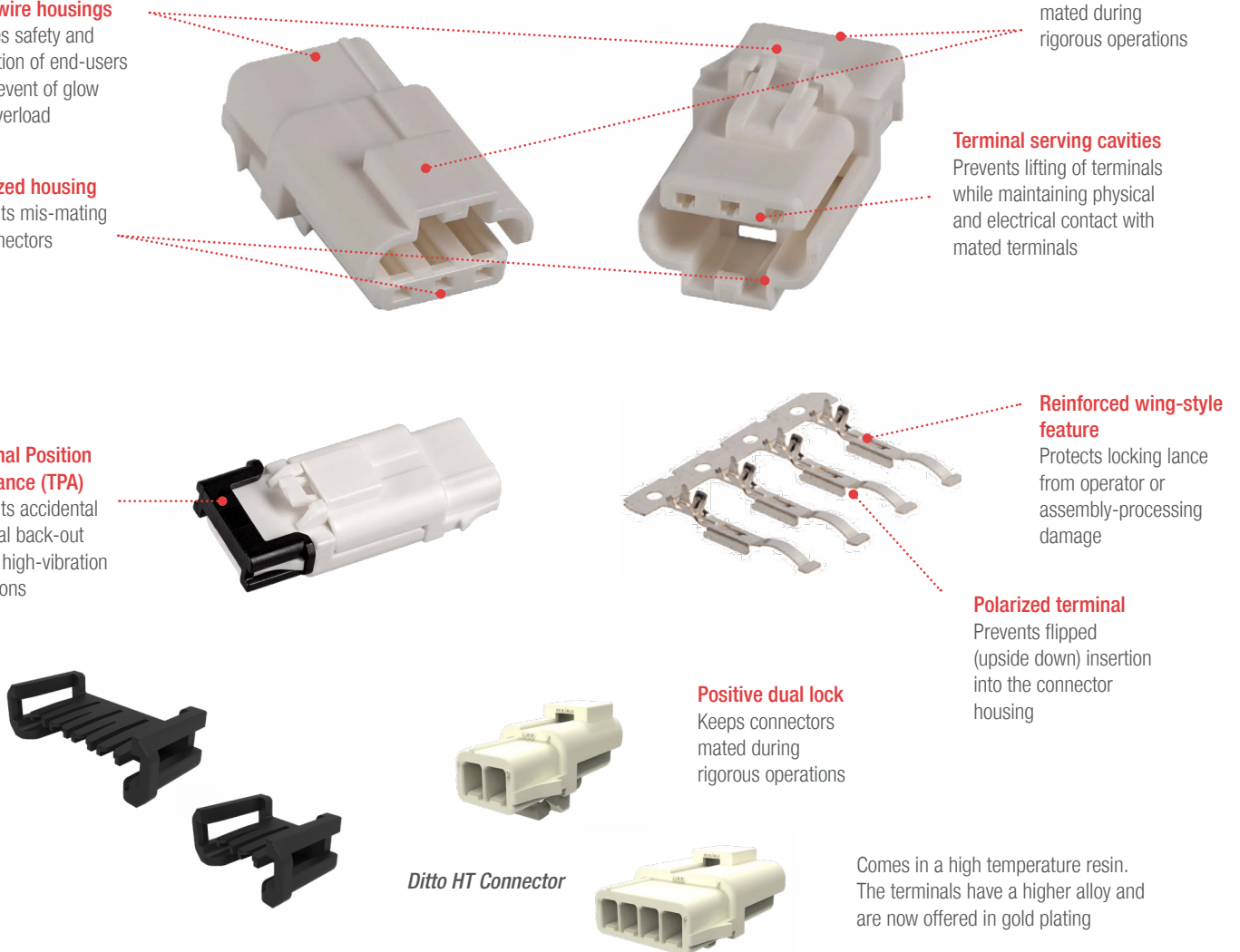
Polarized terminal

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

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

Ditto Wire-to-Wire Connectors



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 | Product Attribute | AWG |
|-------------|----------------------|----------|
| 150200-0001 | 3.0mm Pitch Terminal | 20 to 22 |
| 150200-0002 | | 24 to 26 |
| 150200-0011 | HT, Gold Terminal | 20 to 22 |
| 150200-0012 | HT, Gold Terminal | 24 to 26 |

| 3.00mm Pitch Housing | | | Circuit Size |
|-----------------------|-------------------|-------------|--------------|
| Non-Glow Wire Housing | Glow Wire Housing | HT | |
| 150170-0002 | 150201-0002 | 150201-0012 | 2 |
| 150170-0003 | 150201-0003 | 150201-0013 | 3 |
| 150170-0004 | 150201-0004 | 150201-0014 | 4 |
| 150170-0005 | 150201-0005 | 150201-0015 | 5 |
| 150170-0006 | 150201-0006 | 150201-0016 | 6 |
| 150170-0007 | 150201-0007 | 150201-0017 | 7 |
| 150170-0008 | 150201-0008 | 150201-0018 | 8 |

| 3.00mm Pitch TPA Retainer | | | | |
|---------------------------|-------------|--------------|-------------|--------------|
| Non-Glow Wire Housing | | Circuit Size | Glow Wire | Circuit Size |
| | HT | | | |
| 150212-0003 | 150212-0013 | 3 | 150213-0002 | 2 |
| 150212-0004 | 150212-0014 | 4 | 150213-0004 | 4 |
| 150212-0005 | 150212-0015 | 5 | 150213-0005 | 5 |
| 150212-0006 | 150212-0016 | 6 | 150213-0008 | 8 |
| 150212-0007 | 150212-0017 | 7 | | |
| | 150212-0018 | 8 | | |

| Non Glow Wire 3.00mm Pitch Housing Pigtail | Wire Length (mm) |
|--|------------------|
| 150207-0001 | 300.00 |
| 150207-0002 | |
| 150207-0003 | |
| 150207-0004 | |
| 150207-0005 | |
| 150207-0006 | |
| 150207-0007 | |
| 150207-0008 | |
| 150207-0009 | 150.00 |
| 150207-0010 | |
| 150207-0011 | |
| 150207-0012 | |
| 150207-0013 | |
| 150207-0014 | |

www.molex.com/link/ditto.html