

# 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

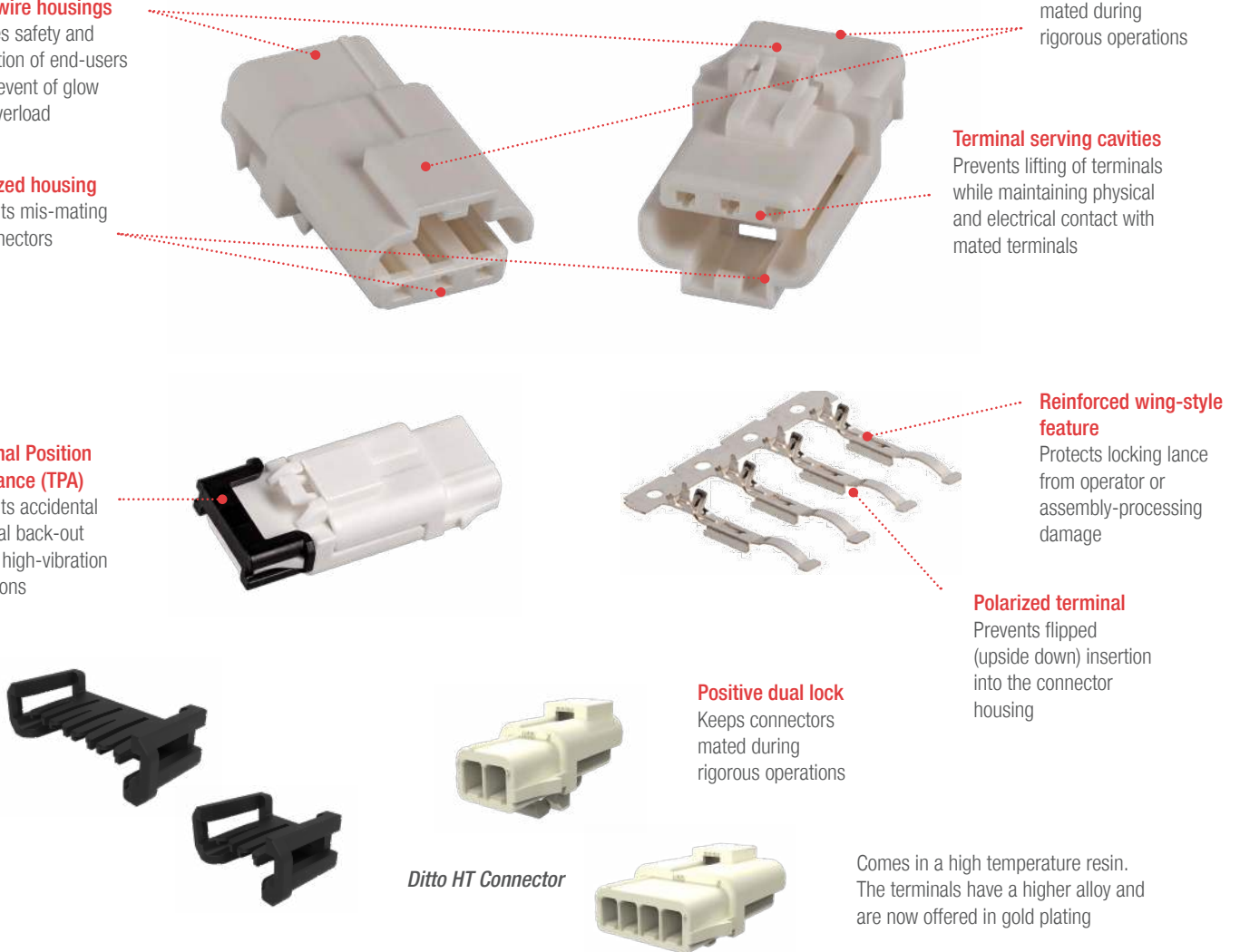
### Polarized terminal

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

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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	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	

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