molex®

Ideal for tight packaging constraints, low-profile SolderRight Direct-Solder Terminals enable right-angle connections to a PCB at a low applied cost

Features and Benefits

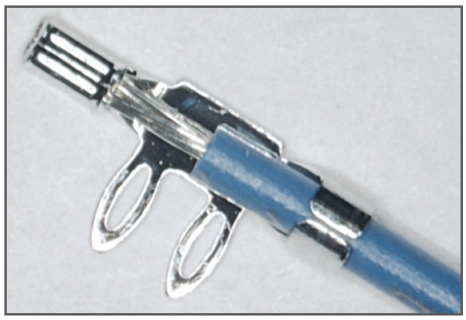
Right-angle mounting orientation	Provides super low profile solder option for wires exiting a PCB (much lower than a “solder & bend” operation that many customers use)
Multiple terminal/wire size ranges (14 to 28 AWG)	Enable signal-to-power current capability while optimizing PCB space
Twin solder pins	Provide unmatched stability for solder processing and allow redundant current paths
Solder pins positioned between the insulation and conductor crimps	Offer superior wire strain relief and resist terminal and solder joint breakage if wire is pulled
Single terminal, one-piece crimp design	One of the lowest-cost, most reliable, direct solder interconnects in the market
Lowered profile from 3.50 to 1.95mm	Allows minimum “z” height soldering profile for tight packaging constraints

SolderRight Direct-Solder Terminals

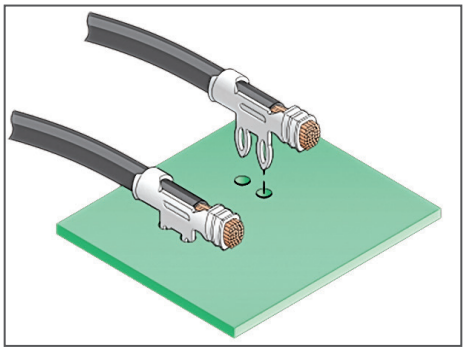
172677 22 to 28 AWG In-Line Mount

172249 14 to 20 AWG In-Line Mount

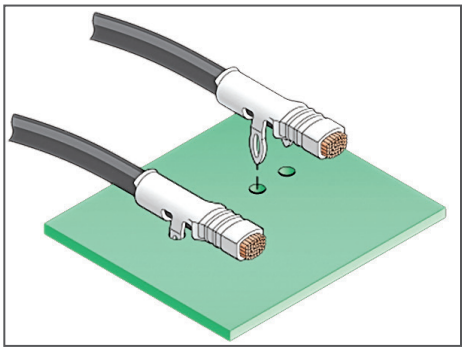
171892 16 to 18 AWG Straddle Mount



SolderRight Direct Solder In-Line Mount Terminal



In-Line Mount



Straddle Mount

molex®

SolderRight Direct-Solder Terminals

Applications

Consumer Appliances / White Goods
- Ranges
- Refrigerators
- Laundry equipment
- Vacuums

Industrial

Networking and Telecommunication

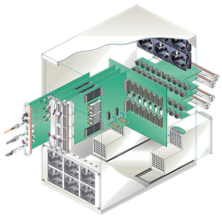
Applications
- Switches
- Servers
- Power supplies

Power Supplies
- 50 to 2,500W
- Consumer Products
- Cordless tools
- Non-Automotive
- Motorcycles / ATVs
- Marine
- Recreational vehicles

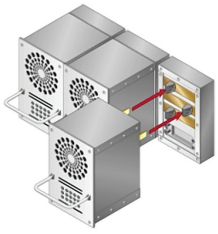
Automotive
- Vehicle electronics

Medical
- Patient monitors
- Diagnostic imaging
- Therapeutic devices

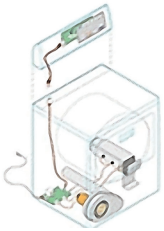
Medical Scanner



Data Networking



Power Supplies



Appliances

Automotive

Specifications

Reference Information
Packaging: Reels
UL File No.: E470987
(for 172249 and 172677)
Mates With: PCB
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: Yes

Electrical
Voltage (max.): Application dependent
Current (max.): 23.0A
Contact Resistance (max.): 5 milliohms

Mechanical
Terminal Insertion Force to PCB (avg.): 29.86 N
Terminal Retention to PCB (avg.): 23.57 N

Physical
Contact: Copper Alloy
Plating: Tin
Underplating — Nickel
PCB Thickness: 0.062" to 0.093"
Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Wire Gauge (AWG)	Mount Style
171892	16 to 18 AWG	Straddle
172249	14 to 20 AWG	In-Line
172677	22 to 28 AWG	

*Click on sample plant link to order samples for your personal sample kit

www.molex.com/link/solderright.html

Order No. 987651-1332 Rev 1 Printed in USA/KC/2017.08