molex® Stac64™ 2.54mm (.100") Single, Multi-Pockect and Hybrid Header System

Electronic device requirements for today's vehicles are rapidly expanding. The Molex 2.54mm (.100") pitch header system allows OEMs and device manufacturers greater design flexibility. The Stac64™ system allows automotive manufacturers the ability to use header assemblies as stand-alone components as well as the option to gang individual headers into a larger header assembly.

The Stac64 system is based on USCAR-2 Class II mechanical and electrical requirements for unsealed 0.64mm (.025") blade-width terminal applications. Stac64 pockets mate to existing wire harness connectors designed to this industry footprint.

Features and Benefits
Single and Multi-Pocket Header System

■ High-temperature thermoplastic housing withstands lead-free processing per Molex ES40000-5013

■ Vertical and right-angle 20-circuit headers feature 4 polarization options with each option being color coded per USCAR specifications to match harness/connector color-coding scheme for visual aid during assembly

■ 8, 12 and 16-circuit right angle and vertical, 0.64mm (.025") headers available in polarization style A providing flexibility to mix and match circuit sizes for specific application requirements

■ Modular housing design supports single and multi-pockets applications

■ Pre-assembled PC tail with mylar alignment plate ensures proper PCB installation

■ Unique power hybrid pocket design supports industry standard 1.50 and 2.80mm (.059 and .110") blade-width terminals

■ USCAR approved Category 0, tin-plated pins to meet mechanical and electrical requirments of USCAR-2 Class II applications

■ Operating temperature of -40 to 100°C

■ Product Specs available: 34691-1000 and 34696-1000

Features and Benefits
Hybrid Assemblies

■ High-temperature thermoplastic housing withstands lead-free processing per Molex ES40000-5013

■ Six 1.50mm (.059") terminals and four 2.80mm (.110") terminals in one header package meets high-power contact requirements for Category 2 and Category 3 terminal systems

■ Modular housing design allows for packaging with 0.64mm (.025") headers to build power and signal interface

■ Smaller footprint than industry standard 1.50mm and 2.80mm (.059 and .110") PCB headers for module and PCB space savings

■ 1.50mm (.059") blades rated for 15.0A and 2.80mm (.110") rated for 25.0A meeting USCAR-2 blade terminal load requirements

SPECIFICATIONS

Reference Information
Packaging: Trays or tubes
Mates With: 31408 0.64mm (.025") receptacle
31372 hybrid receptacle
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 0.64mm (.025") terminals -5.0A
1.50mm (.059") terminals -15.0A
2.80mm (.110") terminals -25.0A
Dielectric Withstanding Voltage: 500V
Insulation Resistance: 20 Megohms min.

Mechanical
Mate force: 75N per pocket max.
Unmating Mate force: 75N per pocket max.
Connector Lock Strength: 110N min.
Terminal Retention in Header:
    0.64mm (.025") terminals - 30N
    1.50mm (.059") terminals - 70N
    2.80mm (.110") terminals - 70N

Physical
Terminal Pitch: 2.54mm (.100"), horizontal and vertical for 0.64mm (.025") pockets
Housing: 30% glass-filled SPS
Contact: Copper alloy
Plating: Overall — 100% pure tin, lead-free
Underplating — Nickel
Operating Temperature: USCAR Class II
-40 to +100°C

USCAR-2 CLASS II MARKETS AND APPLICATIONS:

molex®

Stac64™ 2.54mm (.100")
Single, Multi-Pockect
and Hybrid Header System

■ Automotive
  - Radios and amplifiers
  - Interior lighting
  - Instrument clusters
  - Power seat modules
  - Door zone modules
  - Navigation
  - DVD players
  - Instrument clusters

■ Transportation
  - Interior electronics
  - Body electronics

ORDERING INFORMATION

Standard Headers

Order No.	Circuit Size	Description	Polarization Style	Color
34690-0200	20	Stac64 vertical header assembly	A	Black
34690-0201	20	Stac64 vertical header assembly	B	Gray
34690-0202	20	Stac64 vertical header assembly	C	Brown
34690-0203	20	Stac64 vertical header assembly	D	Green
34691-0200	20	Stac64 right angle header assembly	A	Black
34691-0201	20	Stac64 right angle header assembly	B	Gray
34691-0202	20	Stac64 right angle header assembly	C	Brown
34691-0203	20	Stac64 right angle header assembly	D	Green
34690-0160	16	Stac64 vertical header assembly	A	Black
34691-0160	16	Stac64 right angle header assembly	A	Black
34690-0120	12	Stac64 vertical header assembly	A	Black
34691-0120	12	Stac64 right angle header assembly	A	Black
34690-0080	8	Stac64 vertical header assembly	A	Black
34691-0080	8	Stac64 right angle header assembly	A	Black
34695-0100	10	Power Stac vertical header assembly	A	Black
34696-0100	10	Power Stac right angle header assembly	A	Black

Ganged Assemblies

Series	Description	Ordering information
34707	Vertical Assemblies	Contact Molex
34708	Right Angle Assemblies	Contact Molex

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