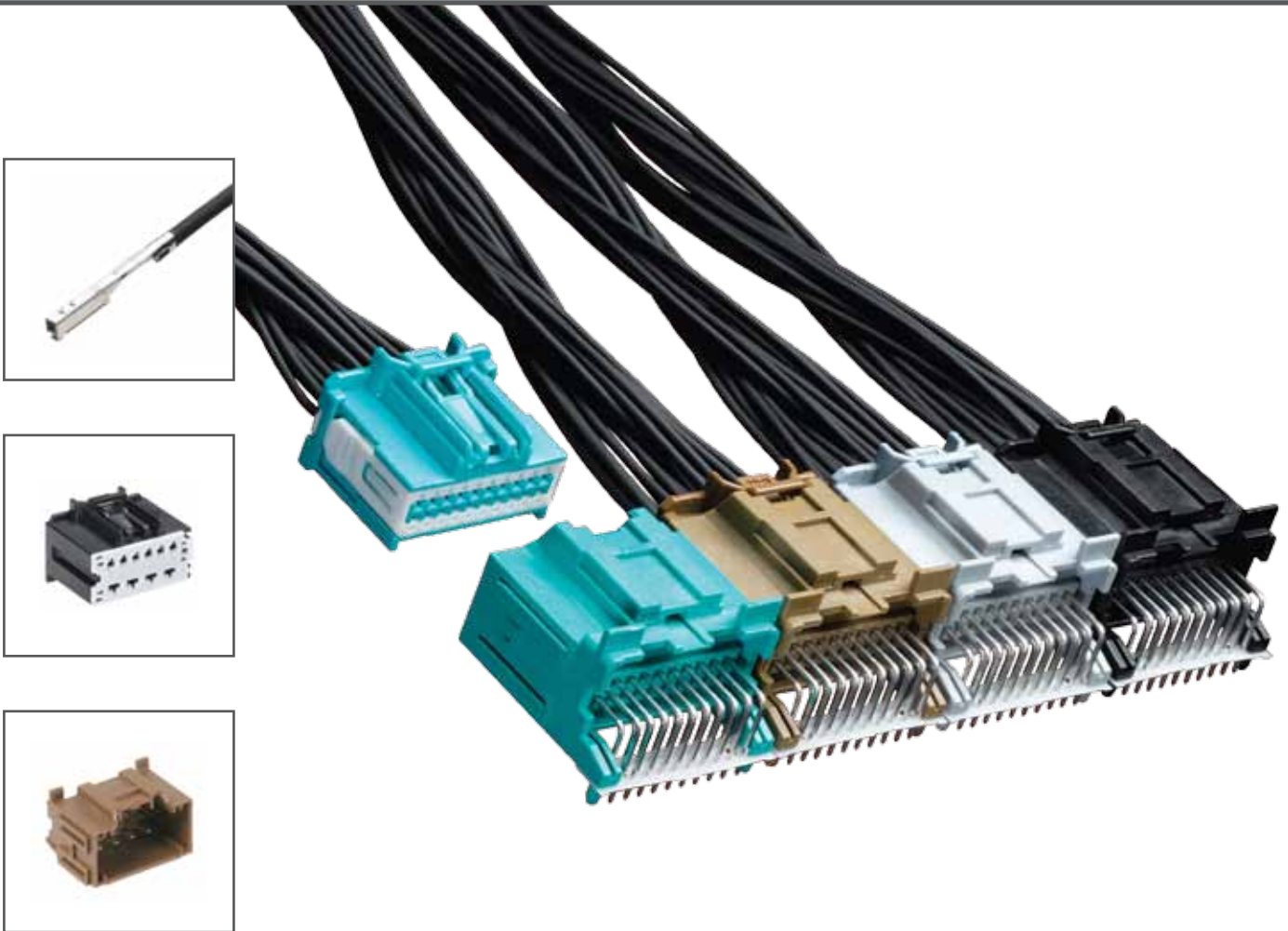


STAC64™ > UNSEALED CONNECTOR SYSTEM

A stackable connection system for unsealed applications, providing single and multi-pocket PCB solutions, offering a diverse range of circuit sizes



STAC64™ UNSEALED CONNECTOR SYSTEM >

- 34729** Female Signal Receptacle
- 34803** CTX64 0.64mm (.025") Female Crimp Terminal
- 31372** 10-Circuit Hybrid Power Receptacle
- 34969** 14-Circuit Hybrid Power Receptacle
- 33012** MX150 1.50mm (.059") Female Crimp Terminal
- 34690** Vertical Single-Bay Signal Header
- 34691** Right Angle Single-Bay Signal Header
- 34695** 10-Circuit Vertical Single-Bay Hybrid Power Header
- 34772** 14-Circuit Vertical Single-Bay Hybrid Power Header
- 34696** 10-Circuit Right Angle Single-Bay Hybrid Power Header
- 34773** 14-Circuit Right Angle Single-Bay Hybrid Power Header
- 34708** Right Angle Ganged Multi-Bay Headers
- 34707** Vertical Ganged Multi-Bay Headers
- 34997** Right Angle Ganged Multi-Bay Headers PAP Version

Applications

Driver Interface

- Door Lock Switches
- Window Switches
- HVAC
- Power Seats
- Heated Seats
- Instrument Clusters

Lighting/Mirrors/Safety

- Dome Lighting
- Interior Lighting
- Rearview Mirrors
- Side Mirrors
- Safety Cameras

Infotainment

- Radios
- Amplifiers
- Speakers
- Navigation
- Telematic Devices
- Driver Entertainment (audio players)
- DVD Players
- LVDS Displays

Driver Interface



Lighting/Mirrors/Safety



Stackable connection system provides single and multi-pocket PCB solutions, offering a diverse range of circuit sizes and greatly reducing time-to-market by completely eliminating custom tooling; female connectors feature only pressure-activated design in the industry.

The Stac64™ connection system allows OEM and device manufacturers to maximize design flexibility in supporting both low-level signal requirements as well as power applications upwards of 30.0A. The Stac64 system allows automotive manufacturers to use header assemblies as stand-alone components, to gang multi-bay headers together to support a large range of signal and power needs for devices and modules.

The standard product line based on the 0.64mm (.025") terminal includes: 8-, 12-, 16- and 20-circuit connectors in both vertical and right-angle headers supporting low-level signal requirements. Additional 'power pocket' versions come in 10-circuit power applications for 1.50 and 2.80mm (.059" and .110") terminal systems and is extended to include 14-circuit hybrid power receptacle that uses 10 x 0.64mm and 4 x 2.80mm terminals, together with vertical and right-angle hybrid power headers, available in all 3 USCAR polarization options (black, brown and grey color coding).

This Stac64 is a standard product system based on USCAR-2 Class II mechanical and electrical performance characteristics for unsealed connector applications. Since its launch Molex has undertaken the validation of the Stac64 product line towards all key Automotive OEM specifications surpassing the most stringent requirements. The connectors mate to existing wire-harness connectors designed to the USCAR/EWCAP industry footprints. Designed originally as a standard product system for unsealed connector applications, the Stac64 design has since secured new patents relating to the stackable header.

The Stac64 standard product offering is currently tooled in high cavitation and is fully validated at the single and multi-bay levels. This greatly reduces time-to-market by completely eliminating the need for additional tooling. Contact Molex or visit: <http://www.molex.com/link/stac64.html> for more information.



Infotainment



**STAC64™
UNSEALED
CONNECTOR
SYSTEM**

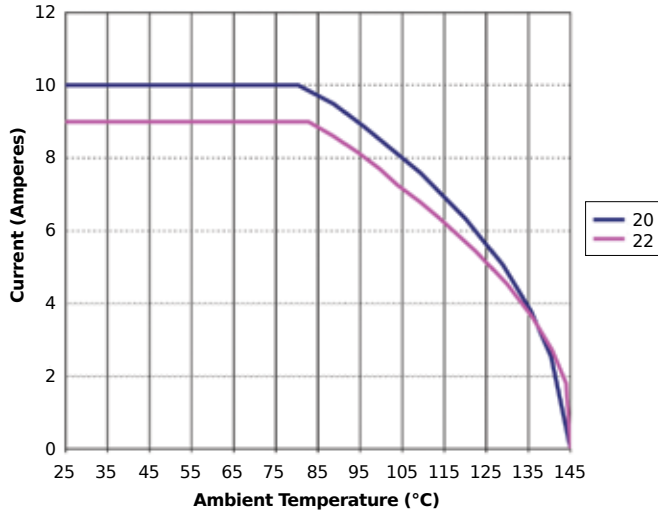
Unsealed Capabilities

Description	Signal	Power
Operating Temperature Range (USCAR Class II)	-40°C to +105°C	
Current Carrying Capacity (See Derating Curves below)	0.64mm (.025"): 10.0A	1.50mm (.059"): 20.0A 2.80mm (.110"): 30.0A
Terminal Pitch (Matte Seal Product)	2.54mm (.10")	1.5: 3.50mm (.138") 2.8: 5.25mm (.207")
Connector System Retention (Main Latch) USCAR Requirement: Exceeds spec. (more than 2x)	110N (24.7 lb) avg	
Terminal Retention (to Connector) USCAR Requirement: Exceeds spec. (more than 2x)	90N min. (20.2 lb) min	90N (20.2 lb) min
Polarization Feature Effectiveness	120N (27.0 lb) min	220N (49.51 lb) min
Vibration Performance (USCAR-2 Rev. 5) Random "On-Body" Profile	0.64: 20 milliohms max.	1.5: 10 milliohms max. 2.8: 5 milliohms max.
(USCAR-2 Rev. 5) Mechanical Shock		

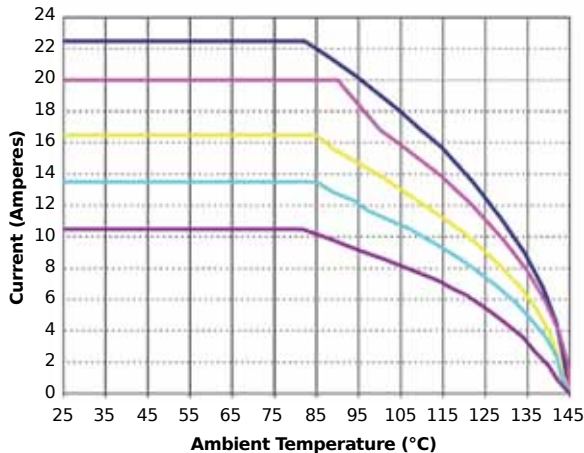
Note: Product Specification PS-34969-100, PS-34729-100 and PS-31372-100 available on molex.com
Electrical requirements validated to USCAR-21 and USCAR-2

Current Carrying Capacity Curves

**Ordinary Sn Receptacle to Stac64 Header, 20 and 22 AWG
USCAR-2 Rev 4**

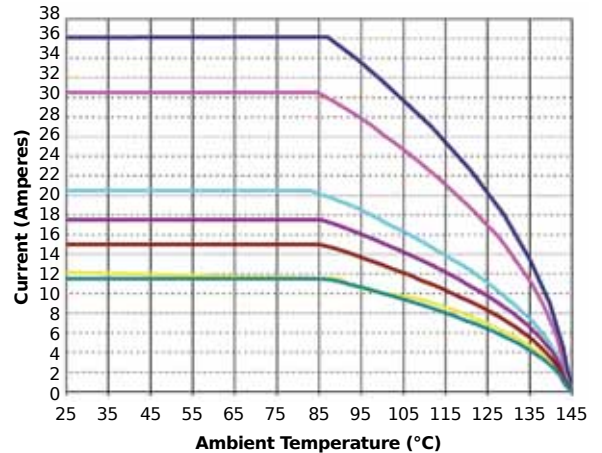


**1.50mm 0.30mm Sn Receptacle to Stac64 Header, 14 to 22 AWG
USCAR-2 Rev 4**



- 14awg Derating Curve
- 16awg Derating Curve
- 18awg Derating Curve
- 20awg Derating Curve
- 22awg Derating Curve

**2.80mm Sn Receptacle to Stac64 Header, 10 to 22 AWG
USCAR-2 Rev 4**



- 10awg Derating Curve
- 12awg Derating Curve
- 14awg Derating Curve
- 16awg Derating Curve
- 18awg Derating Curve
- 20awg Derating Curve
- 22awg Derating Curve

**STAC64™
UNSEALED
CONNECTOR
SYSTEM**

Features and Benefits

- Pre-assembled TPA to receptacle housing shipped as single assembly provide applied labor and cost savings
- Using 0.64mm terminal for signal current applications

Specifications

REFERENCE INFORMATION

Packaging: Female Receptacle Connectors – Bulk Pack
Designed In: Millimeters

ELECTRICAL

Voltage: 500V max.
Current: 0.64mm (.025") – 6.0A max.
Contact Resistance: 0.64mm (.025") – 20 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Connector Retention (Primary latch): 110N (24.7 lb) min.
Contact Retention to Housing: 0.64mm (.025") – 75N (16.9 lb) min. with TPA, 30N (6.7 lb) without TPA
Contact Insertion Force Into Housing: 30N (6.7 lb) max.
Connector Audible Feedback: 7dB over ambient
Durability: 10 milliohms max. – 10 cycles
TPA Insertion Force: 60N (13.5 lb) max.
TPA Extraction Force: 60N (13.5 lb) max.
Thermal Shock (Class 2, 100 cycles): 0.64mm (.025"). – 20 milliohms max.
Vibration/Mechanical Shock (electrical): 0.64mm (.025"). – 20 milliohms max.
Temperature/Humidity (electrical): 0.64mm (.025"). – 20 milliohms max.
High Temperature Exposure (electrical): 0.64mm (.025"). – 20 milliohms max.
Mating Force: 60N max.

PHYSICAL

Harness Housings: Glass filled PBT
TPA: 15% glass filled polyester



**2.54mm (.100")
pitch, with TPA,
female signal
receptacle**

Ordering Information

FEMALE SIGNAL RECEPTACLE CONNECTORS					
Circuit Size	Order No.	Polarization Option	Color	Use With	Mates With
8	34729-0080	A	Black	Series 34803 CTX64 0.64mm (.025") Female Crimp Terminal	Series 34690, 34691, 34707, 34708 and 34997 Signal Headers
	34729-0081	B	Grey		
	34729-0082	C	Brown		
12	34729-0120	A	Black		
	34729-0121	B	Grey		
	34729-0122	C	Brown		
16	34729-0160	A	Black		
	34729-0161	B	Grey		
	34729-0162	C	Brown		
20	34729-0200	A	Black		
	34729-0201	B	Grey		
	34729-0202	C	Brown		
	34729-0203	D	Green		

Note: All dimensions in millimeters.

STAC64™ UNSEALED CONNECTOR SYSTEM >

Features and Benefits

- Pre-assembled TPA to receptacle housing shipped as single assembly provide applied labor and cost savings
- Hybrid configuration using 0.64mm, 1.5mm and 2.8mm terminals for signal and high current applications



**31372 series,
5.25mm (.206")
pitch, with TPA,
hybrid power
receptacle**



**34969 series,
hybrid power
receptacle
with TPA**

Specifications

REFERENCE INFORMATION

Packaging: Female Receptacle
Connectors – Bulk Pack
Mates With: Series 34695, 34696, 34772, 34773, 34707, 34708 and 34997
male unsealed headers
Use With Terminals:
1.50mm (.059") female – Molex 33012
-2001, -2002, -2003, -3001, -3002, -3003
2.80mm (.110") female – Tyco and Yazaki
0.64mm (.025") female – Series 34803
Designed In: Millimeters

ELECTRICAL

Voltage: 500V max.
Current:
2.80mm (.110") – 30.0A max.
1.50mm (.059") – 22.0A max
0.64mm (.025") – 6.0A max.
Contact Resistance:
2.80mm (.110") – 5 milliohms max.
1.50mm (.059") – 10 milliohms max.
0.64mm (.025") – 20 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Mating Force: Less than 75N (16.9 lb)
Connector Retention (Primary latch):
110N (24.7 lb) min.
Contact Retention to Housing:
2.80mm (.110") – 90N (20.2 lb) min.
with TPA, 60N (13.5 lb) without TPA
1.50mm (.059") – 85N (19.1 lb) min.
with TPA, 45N (10.1 lb) without TPA
0.64mm (.025") – 75N (16.9 lb) min.
with TPA, 30N (6.7 lb) without TPA
Contact Insertion Force Into Housing:
30N (6.7 lb) max.
Connector Audible Feedback:
7dB over ambient
Durability: 10 milliohms max. – 10 cycles
TPA Insertion Force: 60N (13.5 lb) max.
TPA Extraction Force: 60N (13.5 lb) max.

PHYSICAL

Harness Housings: Glass filled
SPS/nylon blend
TPA: 15% glass filled polyester

Ordering Information

FEMALE SIGNAL RECEPTACLE CONNECTORS								
Circuit Size	Order No.	Polarization Option	Color	Terminal Loading			Mates With	Use With
				0.64mm	1.50mm	2.80mm		
10	31372-1000	A	Black	-	6	4	Series 34695, 34696, 34707, 34708 and 34997 Hybrid Headers	Series 34803 CTX64 0.64mm (.025") Female Crimp Terminal and Series 33012 MX150 1.50mm (.059") Female Crimp Terminal
	31372-1100	B	Grey					
	31372-1200	C	Brown					
14	34969-0140	A	Black	10	-	4	Series 34772, 34773, 34707 and 34708 Hybrid Headers	
	34969-0141	B	Grey					
	34969-0142	C	Brown					

Note: All dimensions in millimeters.

**STAC64™
UNSEALED
CONNECTOR
SYSTEM**

Features and Benefits

- Meets USCAR performance testing
- Low insertion force
- Strong crimps
- Accommodates SAE and metric wires
- Lead free
- Clean body terminal design

Specifications

REFERENCE INFORMATION

Packaging: Terminals – Reel
Designed In: Millimeters

ELECTRICAL

Voltage: 500V max.
Current: 0.64mm (.025") – 6.0A max.
Contact Resistance: 0.64mm (.025")
– 20 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Wire Pull-Out Force:
20 AWG – 75N (16.9 lb) min
22 AWG – 50N (11.2 lb) min

PHYSICAL

Contact: Copper Alloy
Plating:
Overplating – Tin
Underplating – Nickel
Insulation Diameter: 1.85 to 1.30mm
(.073 to .051")
Wire Gauge: 0.85 to 0.22mm²
(20 to 24 AWG)



**CTX64 0.64mm
(.025") female
crimp terminal**

Ordering Information

0.64MM (.025") FEMALE CRIMP TERMINAL					
Order No.		Plating	Wire Gauge	Use With	Mates With
Right Payoff, B Wound	Left Payoff, D Wound				
34803-0213	34803-0211	Tin	22 AWG	Series 34729 and 34969 Receptacles	Series 34690, 34691, 34707, 34708, 34772, 34773 and 34997 Headers
34803-0214	34803-0212		20 AWG		

STAC64™ UNSEALED CONNECTOR SYSTEM >

Features and Benefits

- Meets USCAR performance testing
- Low insertion force
- Strong crimps
- Accommodates SAE and metric wires
- Lead free



**MX150 1.50mm
(.059") female
crimp terminal**

Specifications

REFERENCE INFORMATION

Packaging: Reel
Designed In: Millimeters

ELECTRICAL

Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Wire Pull-Out Force:
14 AWG – 180N min. (40.5 lb) min
22 AWG – 70N min. (15.7 lb) min
Mating Force: 3.0N (0.7 lb) avg
Unmating Force: 3.0N (0.7 lb) avg
Normal Force: 6.0N (1.3 lb) avg

PHYSICAL

Contact: Copper Alloy
Plating: Tin
Wire Gauge: 2.00 to 0.35mm²
(14 to 22 AWG)
Insulation Diameter: 2.70 to 1.20mm
(.106 to .047")

Ordering Information

MX150 1.50MM (.059") FEMALE CRIMP TERMINAL					
Order No.		Plating	Wire Gauge	Use With	Mates With
Right Payoff, B Wound	Left Payoff, D Wound				
33012-2001	33012-3001	Tin	14 to 16 AWG	Series 31372 Hybrid Receptacle	Series 34695, 34696, 34707, 34708, 34997 Hybrid Headers
33012-2002	33012-3002		18 to 20 AWG		
33012-2003	33012-3003		22 AWG		

Features and Benefits

- Stackable connection system of readily available PCB headers ensure reduced time-to-market: engineering and validation times reduced significantly, no tooling necessary to produce custom multi-bay headers
- The header housings are molded in standard USCAR color schemes for additional polarizations to match harness connector color-coding scheme for visual aid in assembly
- Modular-housing design with standard dovetail features molded into the housings allows headers to be ganged together in large assemblies to meet growing terminal quantity requirements
- High temperature thermoplastic housing for wave solder processing
- Hard plastic pin-alignment plate (PAP) for infra red (IR) reflow process up to 260°C and selective wave soldering
- PCB alignment posts ensure all terminals are properly aligned into PCB through-holes during assembly and solder processing

STAC64™ UNSEALED CONNECTOR SYSTEM



**2.54mm (.100")
pitch, vertical
single-bay
signal header**

Specifications

REFERENCE INFORMATION

Designed In: Millimeters
Packaging: Tray or Tube

ELECTRICAL

Voltage: 500V max.
Current:
0.64mm (.025") – 6.0A max.
1.50mm (.059") – 22.0A max.
2.80mm (.110") – 30.0A max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Durability: 10 milliohms max. – 10 cycles
Header Pin Retention Force:
15N (3.4 lb) min.

PHYSICAL

Header Housings: Glass filled SPS
Contact: Copper Alloy
Plating:
Overplating – Tin
Underplating – Nickel



**2.54mm (.100")
pitch, right
angle single-bay
signal header**

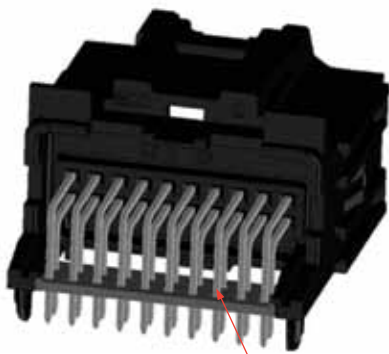
Difference between right-angle headers featuring a hard plastic Pin Alignment Plate (PAP Version) and standard Mylar (Mylar Version):

- Standard Mylar version only for standard wave soldering
- PAP Version for IR reflow process and selective wave soldering



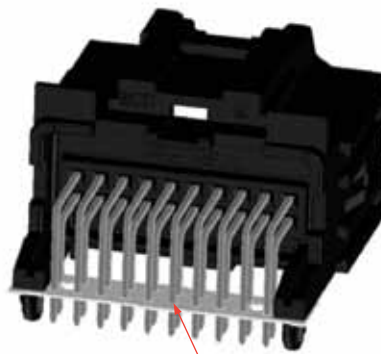
**2.54mm (.100")
pitch, right
angle single-bay
signal header,
PAP version**

PAP Version



PAP MATERIAL SPS-30% GF

Mylar Version



Mylar

Ordering Information

VERTICAL SINGLE-BAY SIGNAL HEADER						
Circuit Size	Connector Length	Order No.		Polarization Option	Color	Mates With
		Tray Packaging	Tube Packaging			
8	18.80	34690-0080	34690-9080	A	Black	Series 34729 Female Signal Receptacle
		34690-0081	34690-9081	B	Grey	
		34690-0082	34690-9082	C	Brown	
12	23.88	34690-0120	34690-9120	A	Black	
		34690-0121	34690-9121	B	Grey	
		34690-0122	34690-9122	C	Brown	
16	28.96	34690-0160	34690-9160	A	Black	
		34690-0161	34690-9161	B	Grey	
		34690-0162	34690-9162	C	Brown	
20	34.04	34690-0200	34690-9200	A	Black	
		34690-0201	34690-9201	B	Grey	
		34690-0202	34690-9202	C	Brown	
		34690-0203	34690-9203	D	Green	

Note: All dimensions in millimeters.

RIGHT ANGLE SINGLE-BAY SIGNAL HEADER						
Circuit Size	Connector Length	Order No.		Polarization Option	Color	Mates With
		Tray Packaging	Tube Packaging			
8	18.80	34691-0080	34691-9080	A	Black	Series 34729 Female Signal Receptacle
		34691-0081	34691-9081	B	Grey	
		34691-0082	34691-9082	C	Brown	
12	23.88	34691-0120	34691-9120	A	Black	
		34691-0121	34691-9121	B	Grey	
		34691-0122	34691-9122	C	Brown	
16	28.96	34691-0160	34691-9160	A	Black	
		34691-0161	34691-9161	B	Grey	
		34691-0162	34691-9162	C	Brown	
20	34.04	34691-0200	34691-9200	A	Black	
		34691-0201	34691-9201	B	Grey	
		34691-0202	34691-9202	C	Brown	
		34691-0203	34691-9203	D	Green	

Note: All dimensions in millimeters.

RIGHT ANGLE SINGLE-BAY SIGNAL HEADER PAP VERSION						
Circuit Size	Connector Length	Order No.		Polarization Option	Color	Mates With
		Tray Packaging	Tube Packaging			
8	18.80	34691-6080	34691-9680	A	Black	Series 34729 Female Signal Receptacle
		34691-6081	34691-9681	B	Grey	
		34691-6082	34691-9682	C	Brown	
12	23.88	34691-6120	34691-9623	A	Black	
		34691-6121	34691-9624	B	Grey	
		34691-6122	34691-9625	C	Brown	
16	28.96	34691-6160	34691-9660	A	Black	
		34691-6161	34691-9661	B	Grey	
		34691-6162	34691-9662	C	Brown	
20	34.04	34691-6200	34691-9246	A	Black	
		34691-6201	34691-9256	B	Grey	
		34691-6202	34691-9266	C	Brown	
		34691-6203	34691-9276	D	Green	

Note: All dimensions in millimeters.

Features and Benefits

- Stackable connection system of readily available PCB headers ensure reduced time-to-market: engineering and validation times reduced significantly, no tooling necessary to produce custom multi-bay headers
- Pre-assembled, linear Mylar PC tail alignment strip for right-angle headers reduces PCB packaging complexity and provides space savings
- The header housings are molded in standard USCAR color schemes for additional polarizations to match harness connector color-coding scheme for visual aid in assembly
- Modular-housing design with standard dovetail features molded into the housings allows headers to be ganged together in large assemblies to meet growing terminal quantity requirements
- High temperature thermoplastic housing for wave solder processing
- PCB alignment posts ensure all terminals are properly aligned into PCB through-holes during assembly and retain header to PCB during assembly and solder processing

STAC64™ UNSEALED CONNECTOR SYSTEM



**34695 series,
vertical single-
bay hybrid
power header**

Specifications

REFERENCE INFORMATION

Designed In: Millimeters
Packaging: Tray or Tube

ELECTRICAL

Voltage: 500V max.
Current:
0.64mm (.025") – 6.0A max.
1.50mm (.059") – 22.0A max.
2.80mm (.110") – 30.0A max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Durability: 10 milliohms max. – 10 cycles
Header Pin Retention Force:
0.64mm(.025") – 15N (3.4 lb) min.
2.80mm (.110") – 70N (15.7 lb) min.
1.50mm (.059") – 70N (15.7 lb) min.

PHYSICAL

Header Housings: Glass filled SPS
Contact: Copper Alloy
Plating:
Overplating – Tin
Underplating – Nickel



**34696 series,
right angle
single-bay hybrid
power header**

Ordering Information

VERTICAL AND RIGHT ANGLE SINGLE-BAY HYBRID POWER HEADER						
Circuit Size	Order No.		Polarization Option	Color	Packaging	Mates With
	Vertical	Right Angle				
10	34695-0100	34696-0100	A	Black	Tray	Series 31372 Hybrid Power Receptacle
	34695-0101	34696-0101	B	Grey		
	34695-0102	34696-0102	C	Brown		
	34695-9100	34696-9100	A	Black	Tube	
	34695-9101	34696-9101	B	Grey		
	34695-9102	34696-9102	C	Brown		
14	34772-0140	34773-0140	A	Black	Tray	Series 34969 Hybrid Power Receptacle
	34772-0141	34773-0141	B	Grey		
	34772-0142	34773-0142	C	Brown		
	34772-9140	34773-9140	A	Black	Tube	
	34772-9141	34773-9141	B	Grey		
	34772-9142	34773-9142	C	Brown		

Note: Contact Molex Global Product Manager for more details on headers using Plastic Pin Alignment Plate (PPAP) for reflow solder process.



**34772 series,
vertical single-
bay hybrid
power header**



**34773 series,
pitch right angle
single-bay hybrid
power header**

STAC64™ UNSEALED CONNECTOR SYSTEM >



**2.54mm pitch
right angle
ganged multi-
bay headers**



**2.54mm pitch
vertical ganged
multi-bay
headers**



**2.54mm (.100")
pitch, right
angle ganged
multi-bay
headers,
PAP version**

Features and Benefits

- Stackable connection system of readily available PCB headers ensure reduced time-to-market: engineering and validation times reduced significantly, no tooling necessary to produce custom multi-bay headers
- The header housings are molded in standard USCAR color schemes for additional polarizations to match harness connector color-coding scheme for visual aid in assembly
- Modular-housing design with standard dovetail features molded into the housings allows headers to be ganged together in large assemblies to meet growing terminal quantity requirements
- High temperature thermoplastic housing for wave solder processing
- Hard plastic pin-alignment plate (PAP) for infra red (IR) reflow process up to 260°C and selective wave soldering
- PCB alignment posts ensure all terminals are properly aligned into PCB through-holes during assembly and retain header to PCB during assembly and solder processing

Specifications

REFERENCE INFORMATION

Packaging: Male Headers – Tray or Tube
Mates With: Series 34729 and 31372
Designed In: Millimeters

ELECTRICAL

Voltage: 500V max.
Current:
2.80mm (.110") – 30.0A max.
1.50mm (.059") – 22.0A max.
0.64mm (.025") – 6.0A max.
Dielectric Withstanding Voltage: 500V DC
Isolation Resistance: 20 Megohms min.

MECHANICAL

Durability: 10 milliohms max. – 10 cycles
Header Pin Retention Force:
2.80mm (.110") – 70N (15.7 lb) min.
1.50mm (.059") – 70N (15.7 lb) min.
0.64mm (.025") – 15N (3.4 lb) min.

PHYSICAL

Header Housings: Glass filled SPS
Contact:
2.80mm (.110") blades – Copper Alloy
1.50mm (.059") blades – Copper Alloy
0.64mm (.025") pins – Copper Alloy
Plating:
Overplating – Tin
Underplating – Nickel

Ordering Information

RIGHT ANGLE GANGED MULTI-BAY HEADERS									
2-Bay									
Order No.		Bay A				Bay B			
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour
34708-7000	34708-2000	20	0.64mm	A	Black	20	0.64mm	B	Gray
N.A.	34708-2001	20	0.64mm	B	Gray	20	0.64mm	C	Brown
N.A.	34708-2002	20	0.64mm	C	Brown	20	0.64mm	D	Green
N.A.	34708-2010	12	0.64mm	A	Black	10	Hybrid	B	Gray
N.A.	34708-2011	20	0.64mm	C	Brown	20	0.64mm	B	Gray
N.A.	34708-2012	10	Hybrid	A	Black	20	0.64mm	C	Brown
N.A.	34708-2013	12	0.64mm	A	Black	20	0.64mm	B	Gray
34708-7012	34708-2020	10	Hybrid	A	Black	16	0.64mm	A	Black
N.A.	34708-2022	20	0.64mm	C	Brown	10	Hybrid	A	Black
N.A.	34708-2030	10	Hybrid	B	Gray	10	Hybrid	A	Black
N.A.	34708-2040	20	0.64mm	A	Black	8	0.64mm	A	Black
N.A.	34708-2050	20	0.64mm	A	Black	16	0.64mm	A	Black
N.A.	34708-2060	10	Hybrid	B	Gray	16	0.64mm	A	Black
N.A.	34708-2070	16	0.64mm	A	Black	12	0.64mm	A	Black
N.A.	34708-2080	16	0.64mm	A	Black	16	0.64mm	B	Gray
N.A.	34708-2090	16	0.64mm	B	Gray	16	0.64mm	C	Brown

Note: Contact Molex Global Product Manager for queries on part number developments.

Ordering Information

RIGHT ANGLE GANGED MULTI-BAY HEADERS																	
2-Bay																	
Order No.		Bay A				Bay B											
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour								
N.A.	34708-2016	12	0.64mm	B	Gray	20	0.64mm	D	Green								
N.A.	34708-2017	16	0.64mm	A	Black	8	0.64mm	C	Brown								
N.A.	34708-2018	16	0.64mm	A	Black	12	0.64mm	A	Black								
N.A.	34708-2019	20	0.64mm	A	Black	12	0.64mm	A	Black								
N.A.	34708-2021	16	0.64mm	B	Gray	16	0.64mm	A	Black								
N.A.	34708-2023	20	0.64mm	A	Black	20	0.64mm	C	Brown								
N.A.	34708-2024	8	0.64mm	A	Black	10	Hybrid	A	Black								
N.A.	34708-2025	8	0.64mm	B	Gray	10	Hybrid	A	Black								
N.A.	34708-2026	16	0.64mm	A	Black	20	0.64mm	A	Black								
N.A.	34708-2027	8	0.64mm	B	Gray	8	0.64mm	B	Gray								
N.A.	34708-2028	16	0.64mm	A	Black	8	0.64mm	A	Black								
N.A.	34708-2029	12	0.64mm	A	Black	12	0.64mm	B	Gray								
N.A.	34708-2031	12	0.64mm	B	Gray	12	0.64mm	A	Black								
34708-7003	34708-2003	20	0.64mm	C	Brown	8	0.64mm	A	Black								
34708-7004	34708-2004	20	0.64mm	C	Brown	12	0.64mm	A	Black								
N.A.	34708-2005	14	Hybrid	C	Brown	20	0.64mm	C	Brown								
N.A.	34708-2006	16	0.64mm	B	Gray	20	0.64mm	B	Gray								
N.A.	34708-2007	16	0.64mm	C	Brown	20	0.64mm	C	Brown								
N.A.	34708-2008	20	0.64mm	A	Black	20	0.64mm	C	Brown								
N.A.	34708-2009	8	0.64mm	A	Black	8	0.64mm	B	Gray								
3-Bay																	
Order No.		Bay A				Bay B				Bay C							
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour				
N.A.	34708-3000	16	0.64mm	B	Gray	16	0.64mm	A	Black	12	0.64mm	B	Gray				
N.A.	34708-3001	20	0.64mm	A	Black	20	0.64mm	B	Gray	12	0.64mm	A	Black				
N.A.	34708-3002	20	0.64mm	A	Black	20	0.64mm	B	Gray	14	Hybrid	C	Brown				
34708-8010	34708-3010	20	0.64mm	A	Black	20	0.64mm	B	Gray	16	0.64mm	A	Black				
N.A.	34708-3020	10	Hybrid	A	Black	20	0.64mm	B	Gray	20	0.64mm	C	Brown				
N.A.	34708-3021	10	Hybrid	A	Black	20	0.64mm	C	Brown	20	0.64mm	D	Green				
N.A.	34708-3022	20	0.64mm	B	Gray	16	0.64mm	C	Brown	10	Hybrid	A	Black				
N.A.	34708-3030	16	0.64mm	A	Black	12	0.64mm	A	Black	10	Hybrid	A	Black				
N.A.	34708-3040	20	0.64mm	A	Black	8	0.64mm	A	Black	10	Hybrid	A	Black				
N.A.	34708-3050	10	Hybrid	A	Black	16	0.64mm	B	Gray	16	0.64mm	C	Brown				
N.A.	34708-3060	16	0.64mm	A	Black	20	0.64mm	C	Brown	20	0.64mm	D	Green				
34708-8070	34708-3070	20	0.64mm	A	Black	20	0.64mm	B	Gray	10	Hybrid	A	Black				
N.A.	34708-3080	12	0.64mm	A	Black	12	0.64mm	B	Gray	16	0.64mm	A	Black				
N.A.	34708-3081	20	0.64mm	D	Green	12	0.64mm	B	Gray	20	0.64mm	C	Brown				
N.A.	34708-3082	12	0.64mm	C	Brown	8	0.64mm	A	Black	8	0.64mm	B	Gray				
N.A.	34708-3083	8	0.64mm	C	Brown	16	0.64mm	B	Gray	16	0.64mm	C	Brown				
N.A.	34708-3084	16	0.64mm	A	Black	8	0.64mm	A	Black	8	0.64mm	B	Gray				
N.A.	34708-3085	20	0.64mm	A	Black	20	0.64mm	B	Gray	20	0.64mm	C	Brown				
N.A.	34708-3086	20	0.64mm	A	Black	20	0.64mm	B	Gray	8	0.64mm	A	Black				
N.A.	34708-3087	20	0.64mm	A	Black	16	0.64mm	A	Black	8	0.64mm	A	Black				
N.A.	34708-3088	12	0.64mm	A	Black	16	0.64mm	A	Black	12	0.64mm	B	Gray				
N.A.	34708-3089	16	0.64mm	A	Black	16	0.64mm	B	Gray	20	0.64mm	A	Black				
N.A.	34708-3090	16	0.64mm	C	Brown	16	0.64mm	A	Black	8	0.64mm	B	Gray				
N.A.	34708-3091	20	0.64mm	C	Brown	12	0.64mm	C	Brown	16	0.64mm	B	Gray				
N.A.	34708-3092	12	0.64mm	B	Gray	8	0.64mm	C	Brown	20	0.64mm	D	Green				
N.A.	34708-3093	16	0.64mm	B	Gray	16	0.64mm	A	Black	8	0.64mm	A	Black				
N.A.	34708-3094	20	0.64mm	D	Green	20	0.64mm	B	Gray	8	0.64mm	A	Black				
N.A.	34708-3095	20	0.64mm	A	Black	16	0.64mm	C	Brown	12	0.64mm	B	Gray				
N.A.	34708-3096	16	0.64mm	A	Black	16	0.64mm	B	Gray	20	0.64mm	C	Brown				
N.A.	34708-3097	16	0.64mm	C	Brown	12	0.64mm	B	Gray	20	0.64mm	A	Black				
N.A.	34708-3098	20	0.64mm	B	Gray	20	0.64mm	C	Brown	20	0.64mm	D	Green				
N.A.	34708-3099	10	Hybrid	A	Black	20	0.64mm	D	Green	10	Hybrid	B	Gray				
4-Bay																	
Order No.		Bay A				Bay B				Bay C				Bay D			
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour
34707-9000	34707-4000	20	0.64mm	A	Black	20	0.64mm	B	Gray	20	0.64mm	C	Brown	20	0.64mm	D	Green
N.A.	34707-4010	12	0.64mm	A	Black	20	0.64mm	A	Black	8	0.64mm	A	Black	16	0.64mm	A	Black

Note: Contact Molex Global Product Manager for queries on part number developments.

Ordering Information

VERTICAL GANGED MULTI-BAY HEADERS																	
2-Bay																	
Order No.		Bay A				Bay B											
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour								
34707-7000	34707-2000	20	0.64mm	A	Black	20	0.64mm	B	Gray								
N.A.	34707-2001	20	0.64mm	A	Black	20	0.64mm	C	Brown								
N.A.	34707-2002	20	0.64mm	C	Brown	20	0.64mm	D	Green								
34707-7012	34707-2012	10	Hybrid	A	Black	20	0.64mm	C	Brown								
N.A.	34707-2022	20	0.64mm	C	Brown	10	Hybrid	A	Black								
N.A.	34707-2030	10	Hybrid	B	Gray	10	Hybrid	A	Black								
N.A.	34707-2040	12	0.64mm	A	Black	12	0.64mm	B	Gray								
N.A.	34707-2050	20	0.64mm	A	Black	16	0.64mm	A	Black								
N.A.	34707-2060	20	0.64mm	A	Black	12	0.64mm	A	Black								
N.A.	34707-2070	16	0.64mm	A	Black	8	0.64mm	C	Brown								
34707-7080	34707-2080	12	0.64mm	A	Black	20	0.64mm	B	Gray								
N.A.	34707-2023	20	0.64mm	A	Black	20	0.64mm	D	Green								
N.A.	34707-2090	16	0.64mm	A	Black	16	0.64mm	B	Gray								
3-Bay																	
Order No.		Bay A				Bay B				Bay C							
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour				
N.A.	34707-3010	20	0.64mm	A	Black	8	0.64mm	A	Black	16	0.64mm	A	Black				
N.A.	34707-3020	16	0.64mm	B	Gray	8	0.64mm	B	Gray	20	0.64mm	B	Gray				
N.A.	34707-3021	10	Hybrid	A	Black	20	0.64mm	C	Brown	20	0.64mm	D	Green				
N.A.	34707-3030	12	0.64mm	A	Black	20	0.64mm	C	Brown	20	0.64mm	D	Green				
N.A.	34707-3040	20	0.64mm	A	Black	20	0.64mm	B	Gray	20	0.64mm	C	Brown				
N.A.	34707-3050	16	0.64mm	A	Black	16	0.64mm	B	Gray	16	0.64mm	C	Brown				
N.A.	34707-3060	20	0.64mm	B	Gray	16	0.64mm	C	Brown	10	Hybrid	A	Black				
N.A.	34707-3070	10	Hybrid	A	Black	10	Hybrid	B	Gray	10	Hybrid	C	Brown				
N.A.	34707-3090	20	0.64mm	A	Black	20	0.64mm	C	Brown	8	0.64mm	B	Gray				
4-Bay																	
Order No.		Bay A				Bay B				Bay C				Bay D			
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour
34707-9000	34707-4000	20	0.64mm	A	Black	20	0.64mm	B	Gray	20	0.64mm	C	Brown	20	0.64mm	D	Green
N.A.	34707-4010	12	0.64mm	A	Black	20	0.64mm	A	Black	8	0.64mm	A	Black	16	0.64mm	A	Black
RIGHT ANGLE GANGED MULTI-BAY HEADERS PAP VERSION																	
2-Bay																	
Order No.		Bay A				Bay B											
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour								
34997-7000	34997-2000	20	0.64mm	A	Black	20	0.64mm	B	Gray								
34997-7001	34997-2001	20	0.64mm	C	Brown	8	0.64mm	A	Black								
34997-7002	34997-2002	20	0.64mm	C	Brown	12	0.64mm	A	Black								
3-Bay																	
Order No.		Bay A				Bay B				Bay C							
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour				
N.A.	34997-3000	16	0.64mm	B	Gray	16	0.64mm	A	Black	8	0.64mm	A	Black				
N.A.	34997-3001	12	0.64mm	A	Black	12	0.64mm	B	Gray	16	0.64mm	A	Black				
N.A.	34997-3002	16	0.64mm	A	Black	12	0.64mm	A	Black	20	0.64mm	A	Black				
N.A.	34997-3003	16	0.64mm	A	Black	12	0.64mm	A	Black	12	0.64mm	A	Black				
4-Bay																	
Order No.		Bay A				Bay B				Bay C				Bay D			
Tube Packaging	Tray Packaging	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour	Circuit Size	Type	Polarization Option	Colour
N.A.	34997-4000*	16	0.64mm	B	Gray	16	0.64mm	A	Black	8	0.64mm	A	Black	10	Hybrid	A	Black
N.A.	34997-4001*	8	0.64mm	A	Black	20	0.64mm	C	Brown	20	0.64mm	B	Gray	10	Hybrid	A	Black

* 10 circuit hybrid is without Mylar on ganged multi-bay header PAP version.

Note: Contact Molex Global Product Manager for queries on part number developments.

Crimp Tooling

APPLICATION TOOLING

Dimensions:
 Height: 152.00mm (6.00")
 Width: 132.00mm (5.346")
 Depth: 101.00mm (4.00")
 Weight:
 Gross: 5.4kg (12 lbs.)
 Unpacked: 4.1kg (9 lbs.)

Mechanics:
 Stroke: 28.50 and
 41.30mm (1.125 and 1.625")
 Shut Height: 135.8mm (5.346")
 Processing Capability: 2500 terminations
 per hour, depending on operator's skill
 and application

STAC64™ UNSEALED CONNECTOR SYSTEM



Hand tool



Mechanical
- applicator

0.64 MM FEMALE TERMINAL						
Order No. (Right Payoff) B Wound	Order No. (Left Payoff) D Wound	Plating	Wire Gauge	Hand Crimp Tool	Applicator	Extraction Tool
34803-0213	34803-0211	Tin	22 AWG	63819-3700	63901-0100	63813-4300
34803-0214	34803-0212		20 AWG	63819-3800	63901-0300	
34803-0213	34803-0211		0.22 mm ²	63819-3700	63901-0100	
			0.30 mm ²			
			0.35 mm ²			
34803-0214	34803-0212		0.50 mm ²	63819-3800	63901-0300	
		0.75 mm ²				
		0.85 mm ²				

Note: Complete Applicators come with the perishable tooling loaded into the applicator.
 See Crimp specification on molex.com for specific wire types.

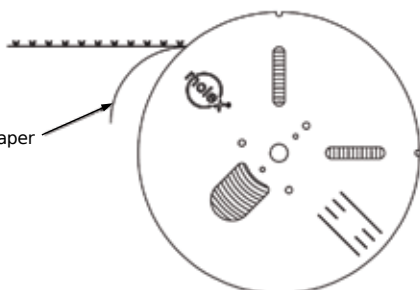
MX150 1.50MM (.059") FEMALE CRIMP TERMINAL						
Order No. (Right Payoff) B Wound	Order No. (Left Payoff) D Wound	Plating	Wire Gauge	Hand Crimp Tool	Applicator (D Wind Only)	Extraction Tool
33012-2003	33012-3003	Tin	22 AWG	63811-6000	63900-1000	63813-1500
33012-2002	33012-3002		20 AWG		63900-0900	
			18 AWG		63900-0800	
33012-2001	33012-3001		16 AWG	63811-5900	63900-0700	
			14 AWG			
33012-2003	33012-3003		0.35 mm ²	N/A	N/A	
			0.50 mm ²	63811-6200	63900-1000	
33012-2002	33012-3002		0.75 mm ²		63811-6100	
			1.00 mm ²	63900-0800		
33012-2001	33012-3001		1.50 mm ²	63900-0700		

Note: To use applicators, D Wound terminals must be used.
 Complete Applicators come with the perishable tooling loaded into the applicator.

Terminal Payoff Directions

Direction B

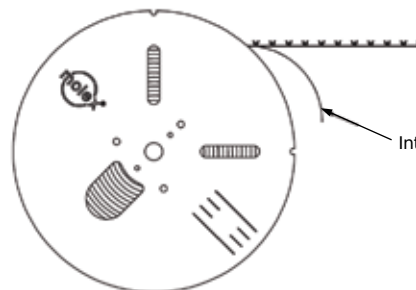
Right Payoff with Paper Interleaf (Right to Left)



Use with Molex Hand Tools

Direction D

Left Payoff with Paper Interleaf (Left to Right)



Use with Molex Hand Tools and Molex Applicators

For instructional manuals containing supplementary information on connector assembly and serviceability, please refer to the links below:

- Stac64 System Application Guide (http://www.molex.com/pdm_docs/as/AS-34729-020.pdf)
- Hybrid Receptacle Application Guide (http://www.molex.com/pdm_docs/as/AS-31372-100.pdf)

Get more insights at: <http://www.molex.com/link/stac64.html>