

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0314081120](#)  
**Status:** **Active**  
**Overview:** [stac64\\_single\\_multipocket\\_and\\_hybrid\\_header\\_system](#)  
**Description:** USCAR 2.54mm (.100") Pitch Receptacle, 12 Circuits, Polarization A, Black

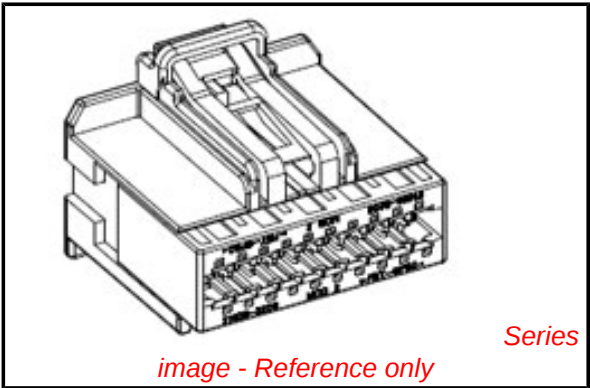
**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Application Specification \(PDF\)](#)  
[Product Specification PS-31408-100 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

| General                       |                                                                    |
|-------------------------------|--------------------------------------------------------------------|
| Product Family                | Crimp Housings                                                     |
| Series                        | <a href="#">31408</a>                                              |
| Comments                      | Polarization A                                                     |
| Overview                      | <a href="#">stac64_single_multipocket_and_hybrid_header_system</a> |
| Product Name                  | USCAR                                                              |
| Physical                      |                                                                    |
| Circuits (maximum)            | 12                                                                 |
| Circuits Detail               | 12                                                                 |
| Color - Resin                 | Black                                                              |
| Gender                        | Female                                                             |
| Glow-Wire Compliant           | No                                                                 |
| Keying to Mating Part         | None                                                               |
| Lock to Mating Part           | No                                                                 |
| Material - Resin              | Modified Polystyrene                                               |
| Number of Rows                | 2                                                                  |
| Packaging Type                | Carton                                                             |
| Panel Mount                   | No                                                                 |
| Pitch - Mating Interface (in) | 0.100 In                                                           |
| Pitch - Mating Interface (mm) | 2.54 mm                                                            |
| Polarized to Mating Part      | Yes                                                                |
| Ports                         | 1                                                                  |
| Stackable                     | No                                                                 |
| Temperature Range - Operating | -40°C to +100°C                                                    |

| Electrical                    |       |
|-------------------------------|-------|
| Current - Maximum per Contact | 10.2A |

Material Info

| Reference - Drawing Numbers |              |
|-----------------------------|--------------|
| Application Specification   | AS-31408-100 |
| Packaging Specification     | PK-31300-044 |
| Product Specification       | PS-31408-100 |
| Sales Drawing               | SD-31408-900 |



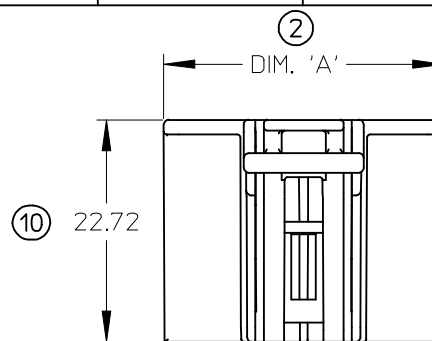
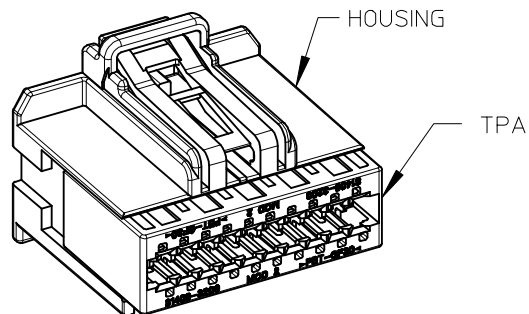
**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Halogen-Free**



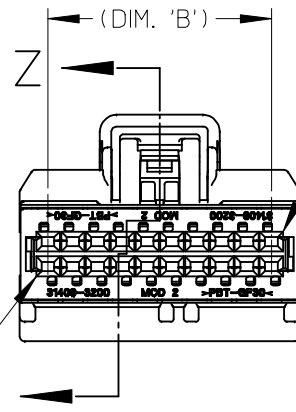
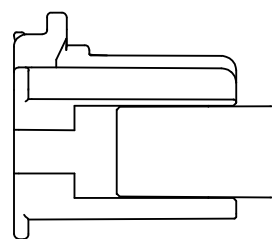
**Need more information on product environmental compliance?**  
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[31408Series](#)

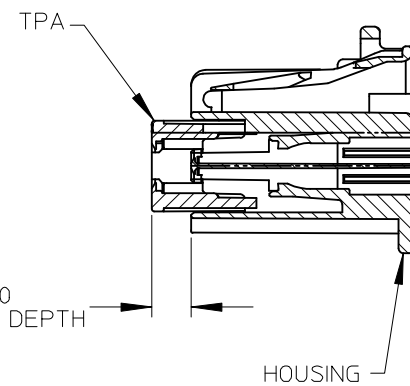
**Mates With**  
[34691](#) Stac64 Right Angle Assembly. [34690](#) Stac64 Vertical Assembly



VIEW SHOWN WITH TPA  
IN LOCKED POSITION



FRONT VIEW



SECTION Z-Z

NOTES:

1. MATERIALS:

HOUSING: SPS/PA66 BLEND, 30% GF  
TPA: PBT, GF  
COLOR: NATURAL (CREAM)

2. PACKAGING INFORMATION: PK-31300-044

3. MATING COMPONENTS:

NEW APPLICATIONS:

REFER TO SD-34691-100 & SD-34690-100

EXISTING APPLICATIONS (RESTRICTED):

REFER TO SD-31429-700 & SD-31411-700

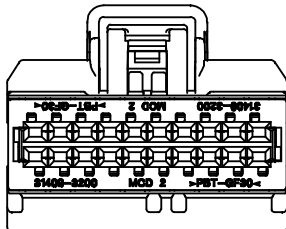
4. TPA's MAY BECOME SEATED DURING TRANSIT. IF THIS OCCURS, REFERENCE MOLEX PRODUCT SPECIFICATION PS-34646-001.

5. TO BE USED WITH TYCO TERMINAL: 18/20 AWG 1393366-1  
22 AWG 1393367-1

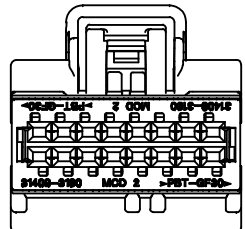
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|------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|--------------------|--|------------------------|
| EC NO: UAU2008-0100<br>GDRWN:BDICK01 2008/08/22<br>CHKD: 2008/08/28<br>APPR: SMARCEA2008/08/28 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽ = 0<br><br>◻ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | SCALE 2:1                                                                                                                     | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION                                            | REVISE ON CAD ONLY |  |                        |
|                                                                                                |             |                                           |                                                      |  | DIMENSION STYLE MM ONLY                                                                                                       |                     | TITLE<br>USCAR 0.64MM RECEPTACLE ASSY, GET TERMINAL SALES DRAWING |                    |  |                        |
|                                                                                                |             |                                           |                                                      |  | DRAWN BY SKAROLEW DATE 2004/02/17                                                                                             |                     |                                                                   |                    |  |                        |
|                                                                                                |             |                                           |                                                      |  | CHECKED BY MDANIELS DATE 2004/03/31                                                                                           |                     | MOLEX MOLEX INCORPORATED                                          |                    |  |                        |
|                                                                                                |             |                                           |                                                      |  | APPROVED BY BBWILSON DATE 2004/04/06                                                                                          |                     |                                                                   |                    |  | MATERIAL NO. SEE CHART |
|                                                                                                | REV         |                                           | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |                                                                   |                    |  | B                      |

10 9 8 7 6 5 4 3 2 31408

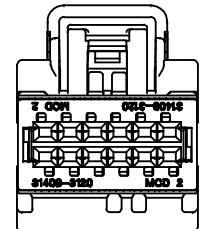
F



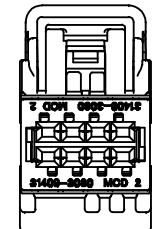
20 WAY



16 WAY

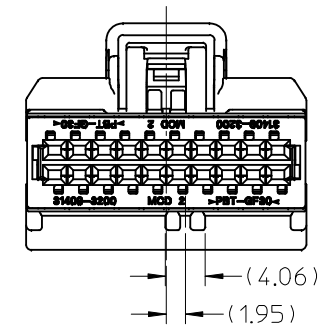


12 WAY

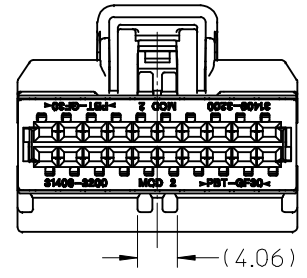


8 WAY

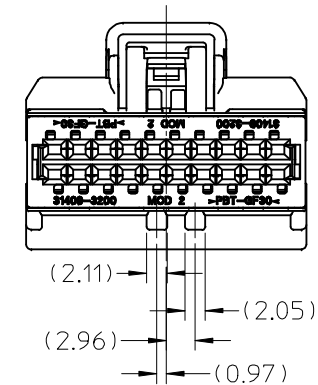
POLARIZATION 'A' OPTION  
(ALL CIRCUITS SHOWN)



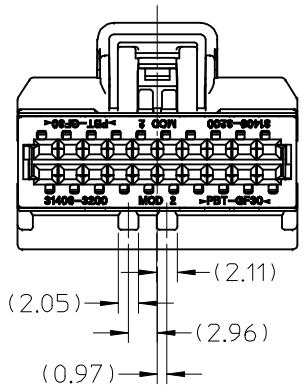
POLARIZATION 'A'



POLARIZATION 'B'



POLARIZATION 'C'



POLARIZATION 'D'

POLARIZATION OPTIONS  
(20-CIRCUIT SHOWN)

D

C

B

A

|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        |                        |           |                                                          |  |
|--------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|------------------------|-----------|----------------------------------------------------------|--|
| EC NO: UAU2008-0100<br>IDRW:BDICK01 2008/08/22<br>CHKD: 2008/08/28<br>APPR: SWARCEA2008/08/28<br><br>G | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽ 0<br><br>▽ 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | SCALE<br>2:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |           | REVISE ON CAD ONLY                                       |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | TITLE                  |           | USCAR 0.64MM RECEPTACLE ASSY, GET TERMINAL SALES DRAWING |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | DRAWN BY               |           | DATE                                                     |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | SKAROLEW               |           | 2004/02/17                                               |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | CHECKED BY             |           | DATE                                                     |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | MDANIELS               |           | 2004/03/31                                               |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | APPROVED BY            |           | DATE                                                     |  |
|                                                                                                        |                    |                                       |                                       |                                                                                                                               |              |                        | BBWILSON               |           | 2004/04/06                                               |  |
|                                                                                                        |                    |                                       |                                       | MATERIAL NO.                                                                                                                  |              | DOCUMENT NO.           |                        | SHEET NO. |                                                          |  |
|                                                                                                        |                    |                                       |                                       | SEE CHART                                                                                                                     |              | SD-31408-900           |                        | 2 OF 3    |                                                          |  |
|                                                                                                        |                    |                                       |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |                        | B         |                                                          |  |

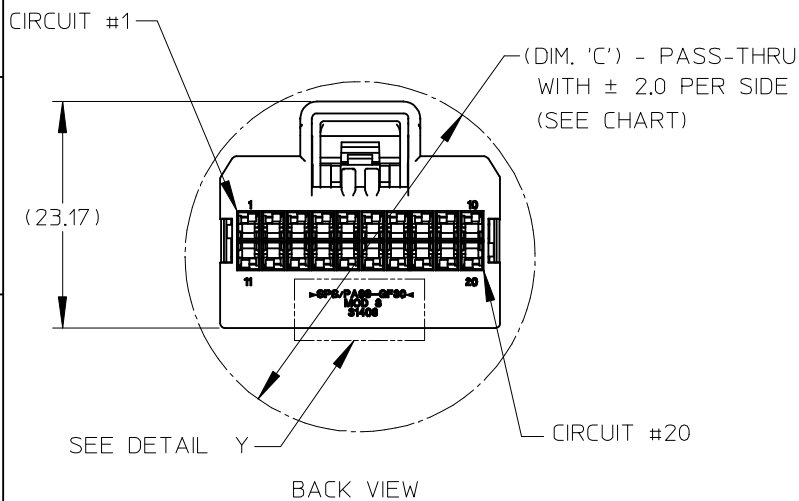
8 7 6 5 4 3 2 1

| MOLEX ASSY. P/N | CIRCUITS | DIM. 'A' | (DIM. 'B') | (DIM. 'C') | POLARIZATION | HOUSING COLOR |
|-----------------|----------|----------|------------|------------|--------------|---------------|
| 31408-1080      | 8        | 13.40    | (7.62)     | (29.7)     | A            | BLACK         |
| 31408-1081      |          |          |            |            | B            | GRAY          |
| 31408-1082      |          |          |            |            | C            | BROWN         |
| 31408-1120      | 12       | 18.48    | (12.70)    | (31.3)     | A            | BLACK         |
| 31408-1121      |          |          |            |            | B            | GRAY          |
| 31408-1122      |          |          |            |            | C            | BROWN         |
| 31408-1160      | 16       | 23.56    | (17.78)    | (33.5)     | A            | BLACK         |
| 31408-1161      |          |          |            |            | B            | GRAY          |
| 31408-1162      |          |          |            |            | C            | BROWN         |
| 31408-1200      | 20       | 28.64    | (22.86)    | (36.3)     | A            | BLACK         |
| 31408-1201      |          |          |            |            | B            | GRAY          |
| 31408-1202      |          |          |            |            | C            | BROWN         |
| 31408-1203      |          |          |            |            | D            | GREEN         |



RECYCLE CODE  
P/N SERIES NO.  
MANU. LOC./CAV. ID

DETAIL Y  
SCALE 4:1



|                                                                                                 |             |                 |                                       |                                                                                                                               |                            |                        |                        |                                                          |              |           |   |
|-------------------------------------------------------------------------------------------------|-------------|-----------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|------------------------|----------------------------------------------------------|--------------|-----------|---|
| EC NO: UAU2008-0100<br>DRAWN:BDICKO1 2008/08/22<br>CHKD: 2008/08/28<br>APPR: SMCARCAQ2008/08/28 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | SCALE<br>2:1               | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY                                       |              |           |   |
|                                                                                                 |             | - 0<br><br>- 0  |                                       | mm INCH                                                                                                                       | DIMENSION STYLE<br>MM ONLY |                        | TITLE                  | USCAR 0.64MM RECEPTACLE ASSY, GET TERMINAL SALES DRAWING |              |           |   |
|                                                                                                 |             |                 | 4 PLACES                              | ± ---                                                                                                                         | ± ---                      | DRAWN BY DATE          |                        |                                                          |              |           |   |
|                                                                                                 |             |                 | 3 PLACES                              | ± ---                                                                                                                         | ± ---                      | SKAROLEW 2004/02/17    |                        |                                                          |              |           |   |
|                                                                                                 |             |                 | 2 PLACES                              | ± 0.13                                                                                                                        | ± ---                      | CHECKED BY DATE        |                        |                                                          |              |           |   |
|                                                                                                 |             |                 | 1 PLACE                               | ± 0.25                                                                                                                        | ± ---                      | MDANIELS 2004/03/31    |                        | MOLEX INCORPORATED                                       |              |           |   |
|                                                                                                 |             |                 |                                       | ANGULAR ± 3 °                                                                                                                 |                            |                        |                        |                                                          |              |           |   |
|                                                                                                 |             |                 |                                       | DRAFT WHERE APPLICABLE                                                                                                        |                            |                        | APPROVED BY DATE       | MATERIAL NO.                                             | DOCUMENT NO. | SHEET NO. |   |
|                                                                                                 |             |                 |                                       | MUST REMAIN WITHIN DIMENSIONS                                                                                                 |                            |                        | BBWILSON 2004/04/06    | SEE CHART                                                | SD-31408-900 | 3 OF 3    |   |
|                                                                                                 |             |                 | REV                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                        |                        |                                                          |              |           | B |