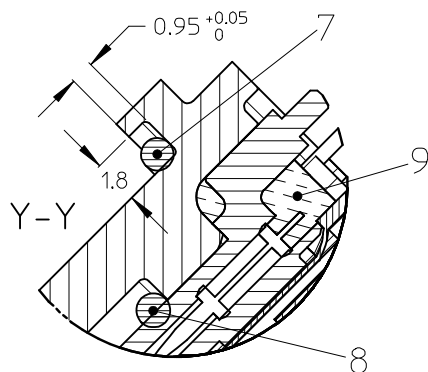
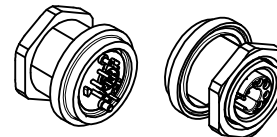
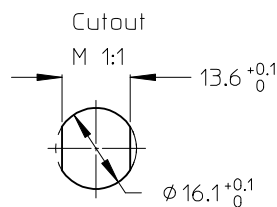
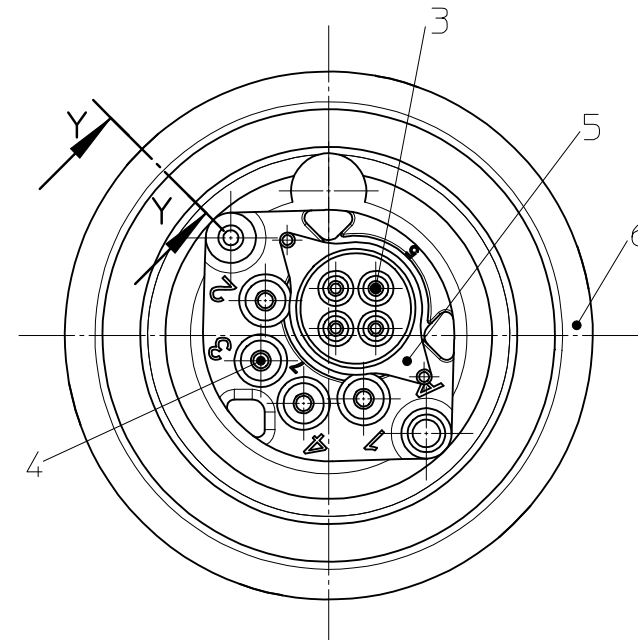
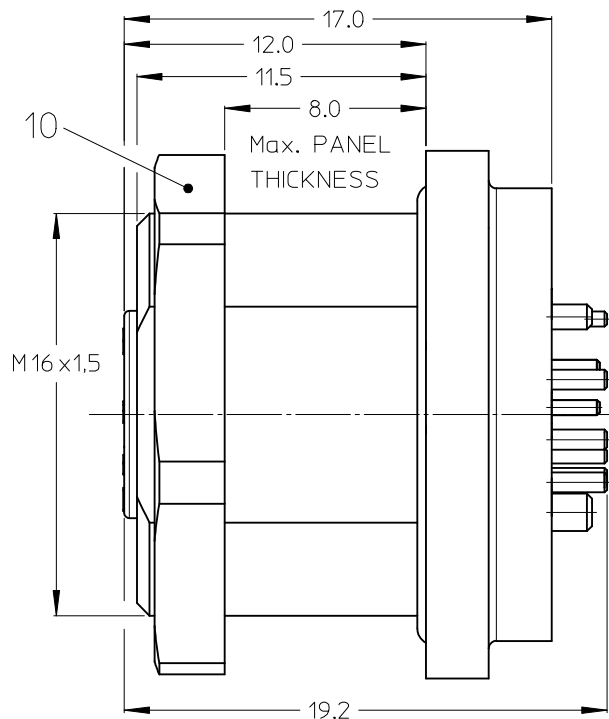
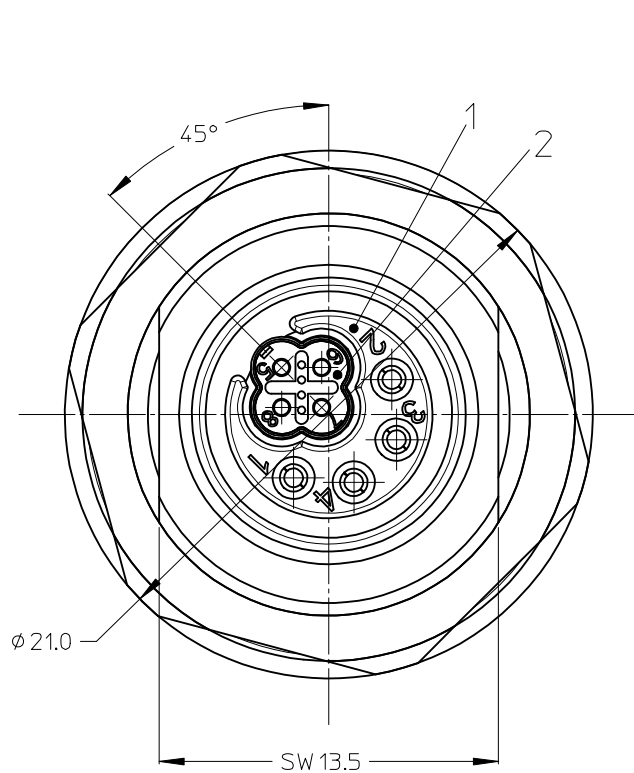




| ITEM | ITEM COMPONENT   | MATERIAL       | FINISH           |
|------|------------------|----------------|------------------|
| 1    | POWER INSERT     | PA             | BLACK            |
| 2    | SIGNAL INSERT    | PP             | BLACK            |
| 3    | SIGNAL CONTACTS  | BRASS          | GOLD OVER NICKEL |
| 4    | POWER CONTACTS   | BRASS          | GOLD OVER NICKEL |
| 5    | SHIELDING SHELL  | BRASS          | NICKEL           |
| 6    | RECEPTACLE SHELL | BRASS          | NICKEL           |
| 7    | O-RING 15.7x1.3  | EPDM           | BLACK            |
| 8    | O-RING 7.1x1.35  | FPM            | RED              |
| 9    | POTTING MATERIAL | EPOXY          | NATURE           |
| 10   | HEXNUT M16x1.5   | CuZn39Pb3 R430 | Cu/Ni3b          |

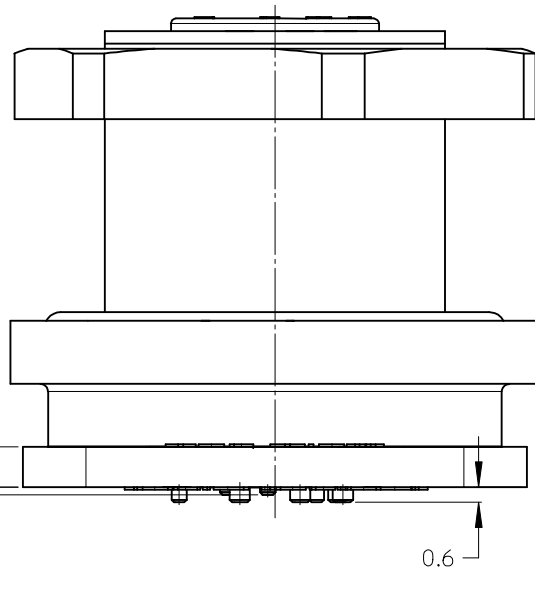
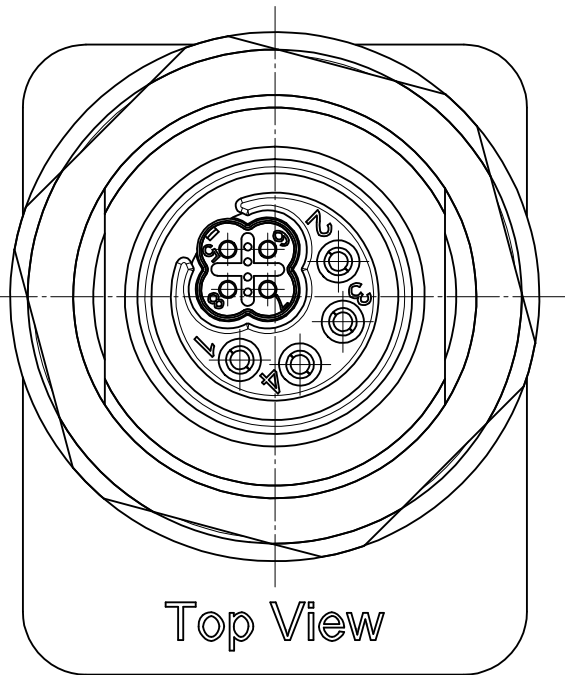
| ENTER DESCRIPTION        | REV |
|--------------------------|-----|
| EC NO: IPG2013-0428      | A   |
| DRWN:RSILLER 2012/09/19  |     |
| CHKD:PMERUNKA 2012/12/18 |     |
| APPR:RSILLER 2013/01/11  |     |

| QUALITY SYMBOLS | DESCRIPTION |
|-----------------|-------------|
| ▽=0             |             |
| ▽=0             |             |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |
|------------------------------------------------------|--------|
|                                                      | mm     |
| 4 PLACES                                             | ± ---  |
| 3 PLACES                                             | ± ---  |
| 2 PLACES                                             | ± 0.05 |
| 1 PLACE                                              | ± 0.1  |
| 0 PLACE                                              | ± ---  |
| ANGULAR ± ---°                                       |        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |

| DIMENSION STYLE |            |
|-----------------|------------|
| MM ONLY         |            |
| DRAWN BY        | DATE       |
| RSILLER         | 2011/04/07 |
| CHECKED BY      | DATE       |
| ULETTENMEIER    | 2011/04/08 |
| APPROVED BY     | DATE       |
| AVOGT           | 2011/04/20 |
| MATERIAL NO.    |            |
| 1202440002      |            |

| SCALE                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |
|-----------------------------------------------|--------------|------------------------|
| 5:1                                           | METRIC       |                        |
| REC M12 8P 0C<br>M16 BM SOL SHLD<br>BACKMOUNT |              |                        |
| molex                                         |              |                        |
| DOCUMENT NO.                                  |              | SHEET NO.              |
| SD-120244-002                                 |              | 1 OF 3                 |



#### DESCRIPTION:

M12 HYBRID RECEPTACLE 4+4 BACK PANEL MOUNT  
WITH M16 THREAD AND SPECIAL KEYWAY.

#### ELECTRICAL DATA:

SIGNAL:

POLES: 4

MAX. VOLTAGE: 30V

MAX. CURRENT: 1.5A at 55°C

CONTACT RESISTANCE: <5 mΩhm

INSULATION RESISTANCE: >100 MΩhm

POWER:

POLES: 4

MAX. VOLTAGE: 30V

MAX. CURRENT: 6A at 55°C

CONTACT RESISTANCE: <5 mΩhm

INSULATION RESISTANCE: >100 MΩhm

#### MECHANICAL CHARACTERISTICS:

MATING CYCLES ACCORDING IEC 61076-2-101; SURFACE: GOLD = 100 CYCLES

#### ENVIRONMENTAL:

DEGREE OF PROTECTION: IP67 IN MATED AND LOCKED POSITION

TEMPERATURE RANGE: -25°C TO 75°C

#### SOLDERING TEMPERATURE:

180°C / 20-40 SEC AT THE PLACEMENT SIDE OF PCB.

#### PACKAGING:

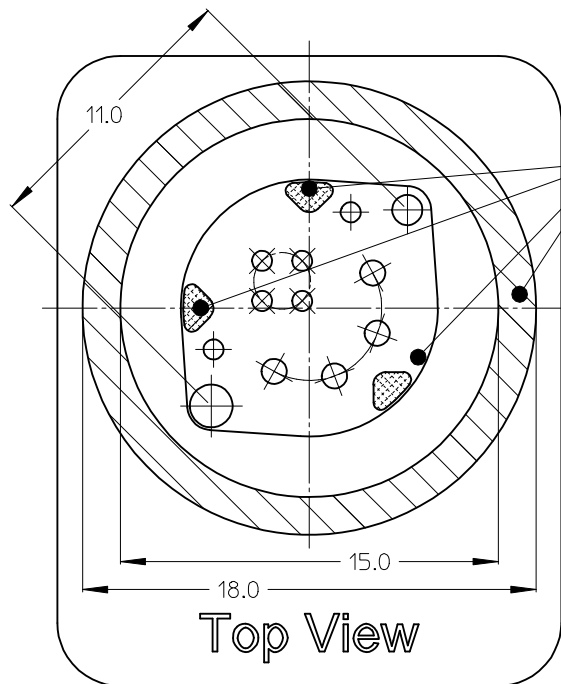
THE RECEPTACLES ARE PACKED INTO BLISTER BOXES 25pcs EACH.

THE BLISTER BOXES ARE PACKED INTO A CARTON BOX 16 BLISTER EACH.

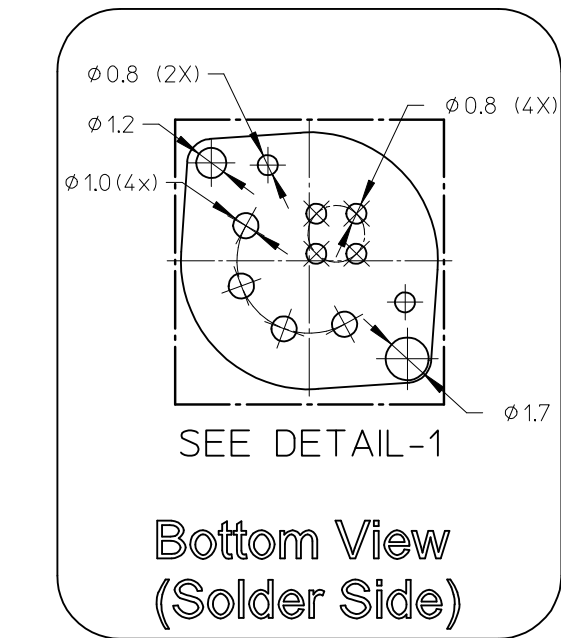
PINOUT/PCB LAYOUT DIMENSIONS REFER TO PAGE: 3

|                                                                                                                            |             |                                   |                                                            |  |                                                                                                                                  |  |                                                        |                        |                            |  |  |           |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|------------------------|----------------------------|--|--|-----------|
| ENTER DESCRIPTION<br>EC NO: IPG2013-0428<br>DRWN:RSILLER 2012/09/19<br>CHKD:PMERUNKA 2012/12/18<br>APPR:RSILLER 2013/01/11 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY                                                                                                       |  | SCALE<br>5:1                                           | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION<br> |  |  |           |
|                                                                                                                            |             |                                   | <div>mmINCH</div>                                          |  | DRAWN BY<br>DATE                                                                                                                 |  | TITLE<br>REC M12 8P 0C<br>M16 BM SOL SHLD<br>BACKMOUNT |                        |                            |  |  |           |
|                                                                                                                            |             |                                   | 4 PLACES ± --- ± ---                                       |  | RSILLER 2011/04/07                                                                                                               |  |                                                        |                        |                            |  |  |           |
|                                                                                                                            |             |                                   | 3 PLACES ± --- ± ---                                       |  | CHECKED BY<br>DATE                                                                                                               |  | molex                                                  |                        |                            |  |  |           |
|                                                                                                                            |             |                                   | 2 PLACES ± 0.05 ± ---                                      |  | ULETTENMEIER 2011/04/08                                                                                                          |  |                                                        |                        |                            |  |  |           |
|                                                                                                                            |             |                                   | 1 PLACE ± 0.1 ± ---                                        |  | APPROVED BY<br>DATE                                                                                                              |  |                                                        |                        |                            |  |  |           |
|                                                                                                                            |             |                                   | 0 PLACE ± --- ± ---                                        |  | AVOGT 2011/04/20                                                                                                                 |  |                                                        |                        |                            |  |  |           |
|                                                                                                                            |             |                                   | ANGULAR ± --- °                                            |  | MATERIAL NO.                                                                                                                     |  | DOCUMENT NO.                                           |                        |                            |  |  | SHEET NO. |
|                                                                                                                            |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | 1202440002                                                                                                                       |  | SD-120244-002                                          |                        |                            |  |  | 2 OF 3    |
|                                                                                                                            |             |                                   | SIZE<br>A3                                                 |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                        |                        |                            |  |  |           |

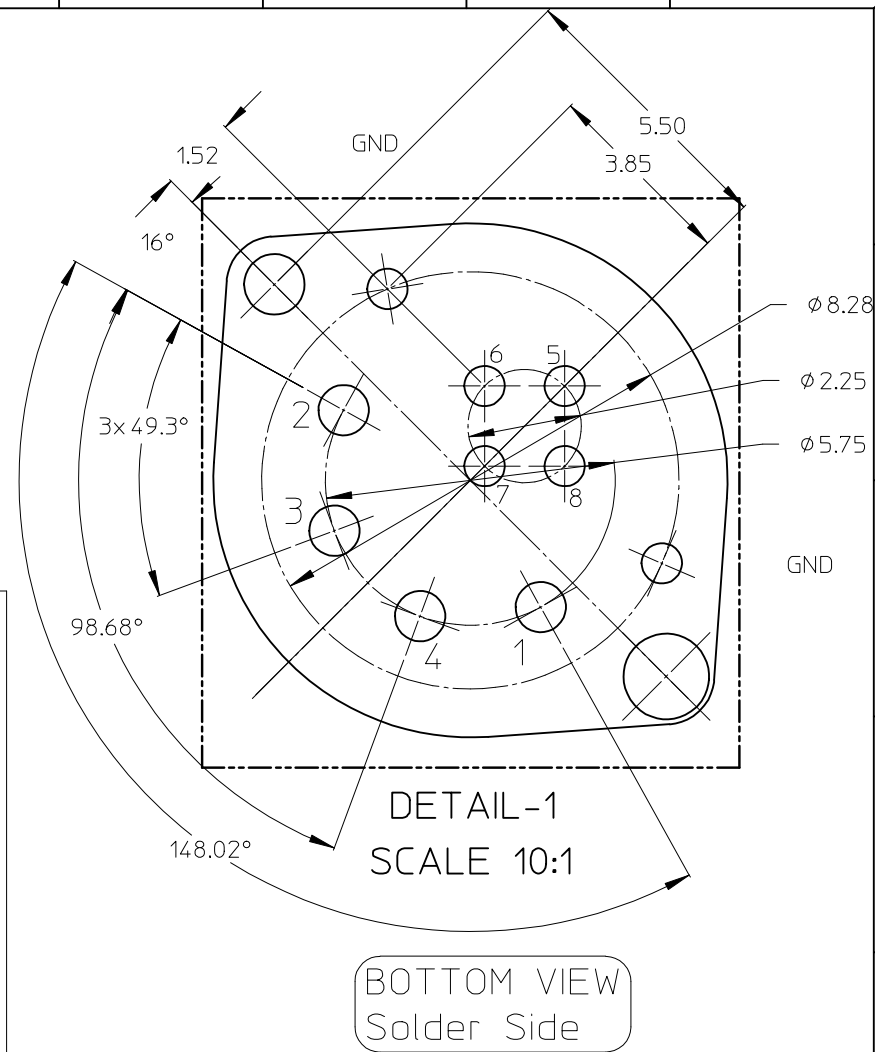
10 9 8 7 6 5 4 3 2 1



ZONES RESERVED FOR  
RECEPTACLE POSTS.  
NO PADS OR PLACEMENT  
ALLOWED!



| OCCUPANCY / BELEGUNG    |           |                       |            |                       |
|-------------------------|-----------|-----------------------|------------|-----------------------|
| Pin                     | Signal IN |                       | Signal OUT |                       |
| 1                       | Power     | 0V <sub>el.SEN</sub>  | Power      | 0V <sub>el.SEN</sub>  |
| 2                       | Power     | 0V <sub>LAST</sub>    | Power      | 0V <sub>LAST</sub>    |
| 3                       | Power     | 24V <sub>LAST</sub>   | Power      | 24V <sub>LAST</sub>   |
| 4                       | Power     | 24V <sub>el.SEN</sub> | Power      | 24V <sub>el.SEN</sub> |
| 5                       | Signal    | TX+                   | Signal     | RX+                   |
| 6                       | Signal    | RX-                   | Signal     | TX-                   |
| 7                       | Signal    | TX-                   | Signal     | RX-                   |
| 8                       | Signal    | RX+                   | Signal     | TX+                   |
| 2x Shielding / GND / FE |           |                       |            |                       |



|                                                                                                                                   |  |             |                                   |                                                            |  |                            |                                                                                                                                  |                                                            |                        |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-----------------------------------|------------------------------------------------------------|--|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------|---------------------------|--|
| ENTER DESCRIPTION<br>EC NO: IPG2013-0428<br>DRAWN BY: RSILLER 2012/09/19<br>CHKD: PMERUNKA 2012/12/18<br>APPR: RSILLER 2013/01/11 |  | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>5:1                                               | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |
|                                                                                                                                   |  |             |                                   |                                                            |  | DRAWN BY DATE              |                                                                                                                                  | TITLE<br><br>REC M12 8P 0C<br>M16 BM SOL SHLD<br>BACKMOUNT |                        |                           |  |
|                                                                                                                                   |  |             |                                   |                                                            |  | CHECKED BY DATE            |                                                                                                                                  |                                                            |                        |                           |  |
|                                                                                                                                   |  |             |                                   |                                                            |  | APPROVED BY DATE           |                                                                                                                                  | molex                                                      |                        |                           |  |
|                                                                                                                                   |  |             |                                   |                                                            |  | MATERIAL NO.               |                                                                                                                                  |                                                            |                        |                           |  |
| A                                                                                                                                 |  | REV         |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                            |                        |                           |  |