

TECHNICAL SPECIFICATION

HOUSING MATERIAL : THERMOPLASTIC POLYESTER UL 94 V-0, GREY  
 HOUSING CAN WITHSTAND EXPOSURE TO LEAD FREE WAVE SOLDERING TEMPERATURE OF 260-265°C FOR STRAIGHT CONNECTORS AS IT IS IN CLASSICAL LEAD WAVE SOLDERING AT 235-250°C

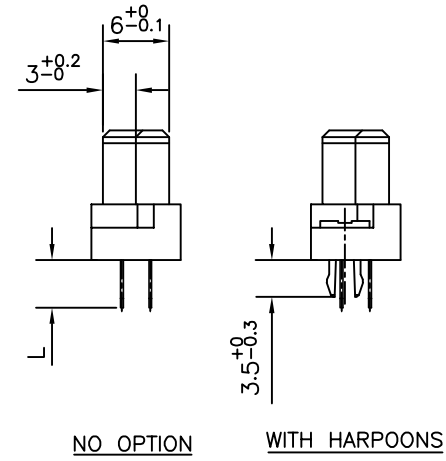
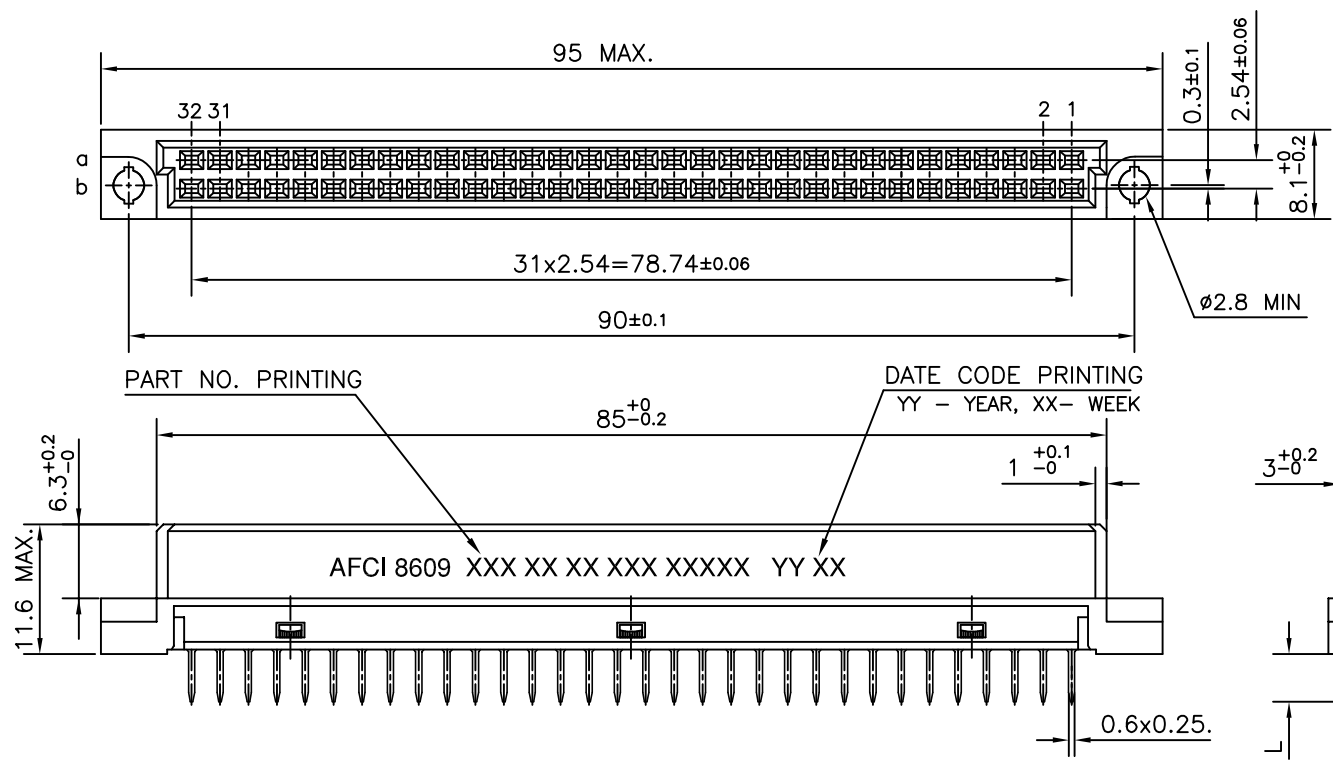
CONTACT MATERIAL : COPPER ALLOY  
 CONTACT PLATING : GOLD / GXT™ OVER NICKEL  
 ACTIVE ZONE : GOLD / GXT™ OVER NICKEL  
 TERMINATION ZONE :  
 LEAD FREE VERSION : TIN (PURE MATTE) OVER Ni

**ELECTRICAL DATA**  
 CURRENT RATING AT 20°C : 1.5 A  
 CURRENT (I MAX) : 2 A  
 TEMPERATURE RANGE : -55°C/ +125°C  
 CONTACT RESISTANCE : ≤ 20mΩ  
 INSULATION RESISTANCE : ≥ 10<sup>6</sup> MΩ  
 TEST VOLTAGE (rms) : 1000V

**MECHANICAL DATA**  
 INSERTION FORCE PER CONTACT : ≤ 0.94N  
 EXTRACTION FORCE PER CONTACT : ≥ 0.15N

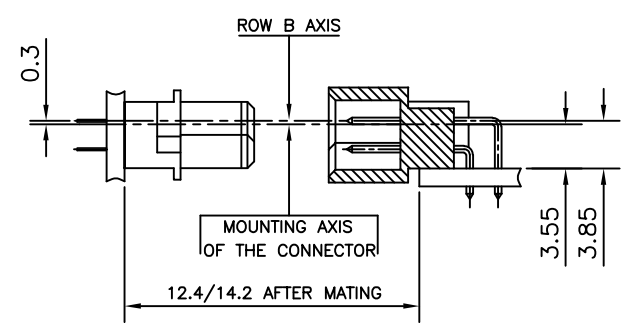
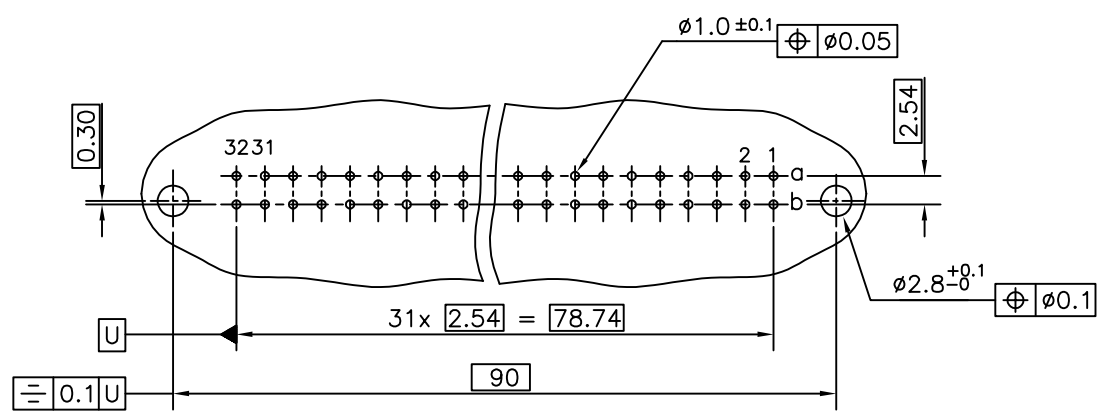
REFERENCE SPECIFICATIONS : DIN 41612 / IEC 603-2

|                                      |      |   |    |   |   |    |   |    |   |                   |
|--------------------------------------|------|---|----|---|---|----|---|----|---|-------------------|
| SERIES                               | 8609 | 2 | 64 | 6 | 1 | 14 | 7 | 5  | 5 | V1LF              |
| ROWS FITTED WITH CONTACTS            |      |   |    |   |   |    |   |    |   |                   |
| Rows a b -                           |      | 2 | 64 |   |   |    |   |    |   |                   |
| Rows a -                             |      | 1 | 32 |   |   |    |   |    |   |                   |
| Rows - b -                           |      | 5 | 32 |   |   |    |   |    |   |                   |
| NUMBER OF CONTACTS                   |      |   |    |   |   |    |   |    |   |                   |
| TYPE OF INSULATOR                    |      |   |    |   |   |    |   |    |   |                   |
| 2 ROW FEMALE INSULATOR               |      |   |    | 6 |   |    |   |    |   |                   |
| METHOD OF MOUNTING                   |      |   |    |   |   |    |   |    |   |                   |
| STANDARD MOUNTING - STYLE B          |      |   |    |   |   | 1  |   |    |   |                   |
| TERMINATION                          |      |   |    |   |   |    |   |    |   |                   |
| LONG STRAIGHT SPILL (L - SEE TABLE)  |      |   |    |   |   |    |   | 14 |   |                   |
| SHORT STRAIGHT SPILL (L - SEE TABLE) |      |   |    |   |   |    |   | 24 |   |                   |
| OPTIONS                              |      |   |    |   |   |    |   |    |   |                   |
| NO OPTION                            |      |   |    |   |   |    |   |    | 7 |                   |
| WITH HARPOONS                        |      |   |    |   |   |    |   |    |   | H                 |
| PERFORMANCE CLASS                    |      |   |    |   |   |    |   |    |   |                   |
| 4 - DIN 41612 CLASS 3                |      |   |    |   |   |    |   |    |   | 4                 |
| 5 - DIN 41612 CLASS 2                |      |   |    |   |   |    |   |    |   | 5                 |
| 6 - DIN 41612 CLASS 1                |      |   |    |   |   |    |   |    |   | 6                 |
| 8 - AS PER MIL C 55302/JSS 50808     |      |   |    |   |   |    |   |    |   | 8                 |
| PITCH PER ROW                        |      |   |    |   |   |    |   |    |   |                   |
| 2.54                                 |      |   |    |   |   |    |   |    |   | 5                 |
| V1LF                                 |      |   |    |   |   |    |   |    |   | LEAD FREE VERSION |



|             |                                   |
|-------------|-----------------------------------|
| 24          | 2.5                               |
| 14          | 4.0                               |
| TERM. STYLE | L <sup>+0.7</sup> / <sub>-0</sub> |

P.C.B DRILLING DETAILS



NOTES:  
 1. THE "LF" PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.  
 2. LEAD FREE OR RoHS DIRECTIVE LABELING TO BE PROVIDED AS PER GS-14-920 FOR LEAD FREE VERSION.  
 3. FOR GENERAL CHARACTERISTICS AND RoHS INFORMATION, REFER DRAWING C-8609-0000A.

|             |             |            |            |                                       |                  |            |                                  |                          |
|-------------|-------------|------------|------------|---------------------------------------|------------------|------------|----------------------------------|--------------------------|
| mat'l. code | -           | surface    | ISO 1302 ✓ | tolerance                             | ISO 406 ISO 1101 | projection | product family                   | 8609                     |
| ltr         | ecn no      | dr         | date       | tolerances unless otherwise specified |                  | mm         | title                            | DIN STANDARD RECEPTACLE  |
| A           | -           | MJA        | 2012-10-10 | angles                                | linear           | scale -    | STRAIGHT SPILL DIN 41612 STYLE-B |                          |
| B           | ELX-I-30159 | MJA        | 2018-05-12 | 0°±1'                                 |                  |            |                                  |                          |
| C           | ELX-I-35876 | MJA        | 2020-01-11 |                                       |                  |            |                                  |                          |
| dr          | M JACOB     | 2012-05-22 |            |                                       |                  |            | dwg no                           | sheet 1 of 1 size        |
| enr         | M JACOB     | 2012-05-22 |            |                                       |                  |            | C-8609-2290                      | A3                       |
| chr         | M JACOB     | 2020-01-11 |            |                                       |                  |            | type                             | Product Customer Drawing |
| appd        | SANOJ       | 2020-01-11 |            |                                       |                  |            |                                  |                          |
| sheet index | revision    | C          |            |                                       |                  |            |                                  |                          |
|             | sheet       | 1          |            |                                       |                  |            |                                  |                          |

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