



# DATA SHEET

**M16 Round Connector, Female, Cable Type, Outside Screw Locking**

**Serie: T61F008**

**M16 Round Connector, Female,  
Cable Type, Outside Screw Locking**

Serie No.: **T61F008**

Customer:

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 04.09.2024 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 1 from 6 |            |

# EDCON-COMPONENTS



**Contact**



## Technical Description

|                              |                                            |
|------------------------------|--------------------------------------------|
| Sensor Connector             | Size M12                                   |
| Number of Position           | 2,3,4,5,5B,6,7,7B,8,9,12,14,16,18,19,20,24 |
| Pin-Type:                    | Male                                       |
| Connecting Termination:      | Wire                                       |
| Locking Type                 | Outside Screw Locking                      |
| Wire Termination:            | Solder Lug                                 |
| Rated current                | Look number of Positions                   |
| Rated Voltage                | Look number of Positions                   |
| Insulation Resistance:       | ≥ 100MΩ                                    |
| Contact Resistance:          | ≤ 5mΩ                                      |
| Rated Impulse Voltage:       | 1500 V                                     |
| Temperature Range:           | .-40°C to + 95°C                           |
| Material Connector Contacts: | CuZn (Brass)                               |
| Contact Plating:             | Ag(Silver)                                 |
| Material Insert / Housing:   | PBT (UL94 V-0)                             |
| Material off Housing:        | CuZn ( Brass nickel-plated)                |
| EMV compliance:              | Shielded                                   |
| Protection Degree:           | IP67 in locked status                      |
| Overmould/ Shell:            | Metal shell                                |
| Overvoltage category:        | I                                          |
| Materail Group:              | III                                        |
| Flame retardant degree:      | UL94V-0                                    |
| Sealing:                     | O-ring ( Rubber)                           |
| Norm:                        | IEC 61076-2-101                            |
| Lifetime:                    | >500 Cycles                                |

## Description and Applications

EDCON offer a complete line of M16 panel mount connector solutions for enclosure, panel and PCB applications. These M16 connector are offered in both versions Male & Female and are rated to IP67. These connector are designed for both front mounting and rear mounting with M16 panel locking thread.

Standard sensor, actuator, encoder, servo motors  
 Factory automation and process control  
 Fieldbus: DeviceNet, CANopen, Profibus, Ethernet, NMEA 2000  
 Industrial instrumentation  
 Packaging, labeling and logistic devices  
 Industrial safety light curtain, light grid, switches  
 Commercial electronics PCBA  
 Power supply  
 LED display panel & outdoor LED lighting

|       |        |      |        |        |                                            |           |           |        |            |                                                                   |
|-------|--------|------|--------|--------|--------------------------------------------|-----------|-----------|--------|------------|-------------------------------------------------------------------|
|       |        |      |        |        | Tolerances unless otherwise specified (mm) |           |           |        |            | M16 Round Connector, Female,<br>Cable Type, Outside Screw Locking |
|       |        |      |        |        | X=                                         | X.X=      | X.XX=     | X.XXX= | Angle      |                                                                   |
|       |        |      |        |        | ±0,35                                      | ±0,25     | ±0,20     | ±0,15  | ±5°        | Part No.: <b>T61F008</b>                                          |
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson                                     | TOLERANCE | Mason     | DATE   | 04.09.2024 | Customer:                                                         |
| APPD: | Schumi |      |        | FINISH | Jamy                                       |           | Sheet No. |        | 2 from 6   |                                                                   |

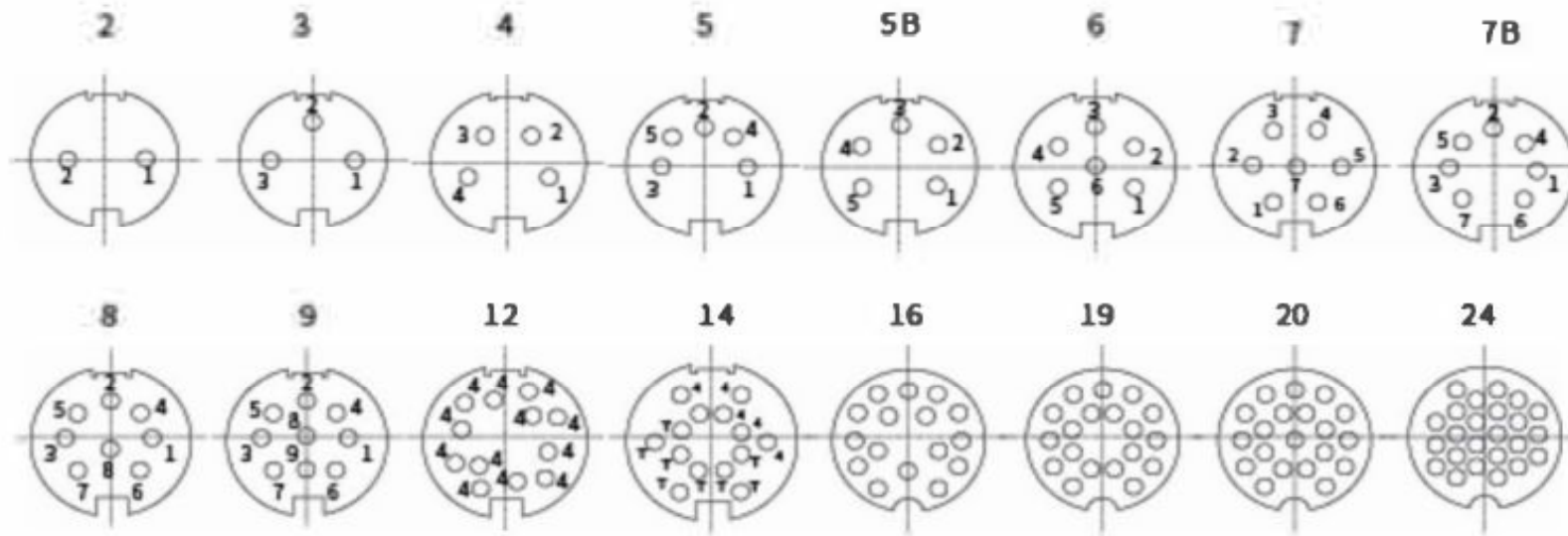
# EDCON-COMPONENTS



**Contact**



|                      |                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Number of contacts   | 2              | 3   | 4   | 5   | 5B  | 6   | 7   | 7B  | 8   | 9   | 12  | 14  | 16  | 19  | 20  | 24  |
| Rated Voltage (V)    | 250            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Rated Current (A)    | 7              | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 5   | 5   | 5   | 5   | 5   | 3   |
| Contact Resistance   | ≤5 mΩ          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Degree of Protection | IP67           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Mechanical Operation | > 500cycles    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Temp.Range           | -40°C to +95°C |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Outer Cable Diameter | 4mm            | 4mm | 4mm | 4mm | 4mm | 4mm | 4mm | 4mm | 4mm | 4mm | 6mm | 6mm | 6mm | 6mm | 6mm | 8mm |



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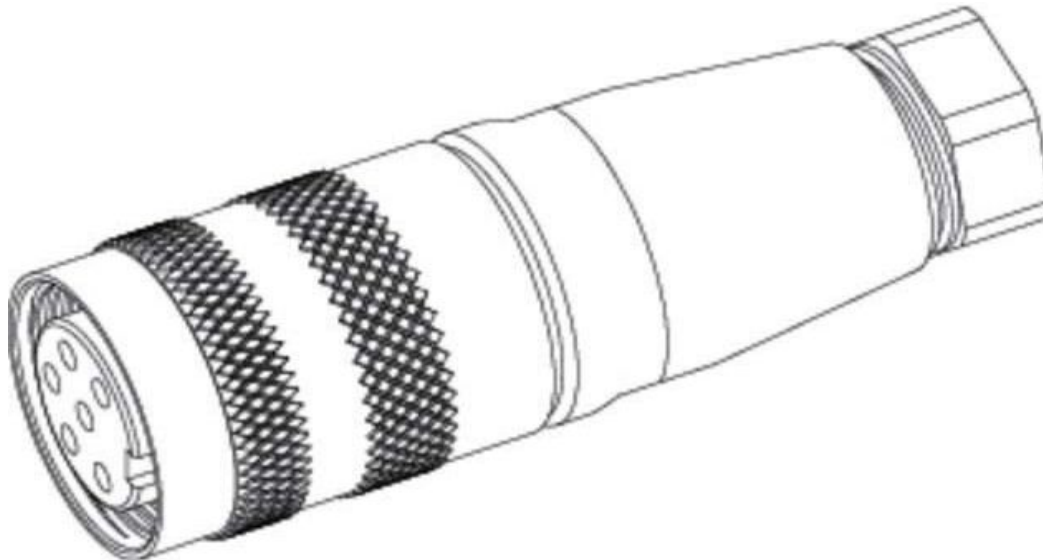
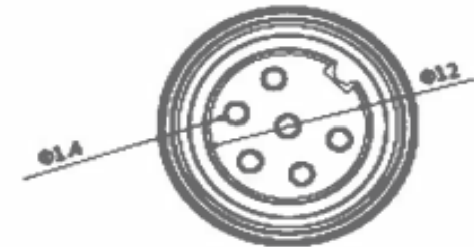
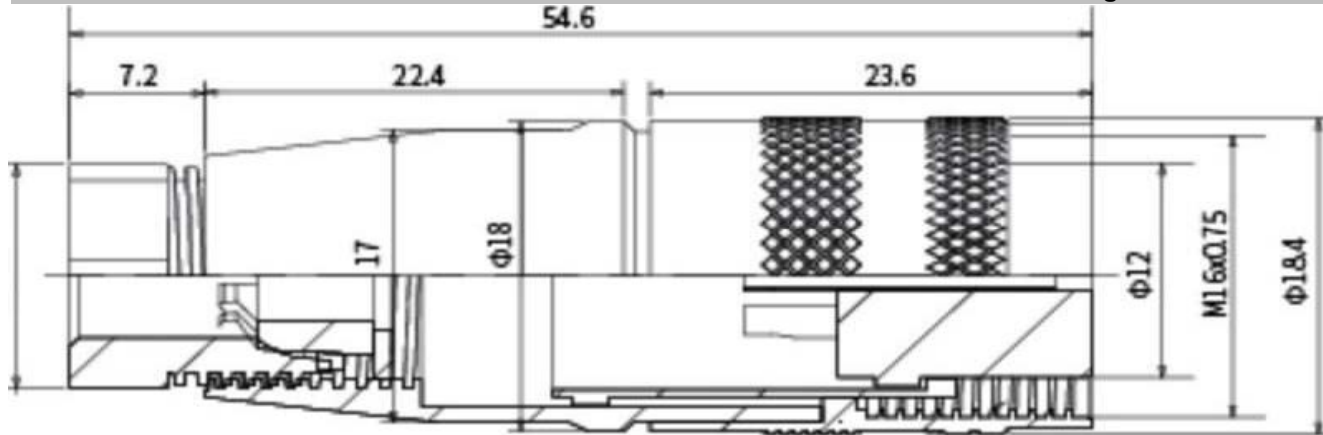
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**Contact**



## Drawing



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## Ordering Informations

| Serie          | No. of Pos. | Contact Type | Contact Plating | Insulator Colour | Special function | ROHS     | Packing Code |  |  |  |
|----------------|-------------|--------------|-----------------|------------------|------------------|----------|--------------|--|--|--|
| <b>T61F008</b> | <b>XX</b>   | <b>M</b>     | <b>AU</b>       | <b>BK</b>        | <b>NN</b>        | <b>R</b> | <b>BU</b>    |  |  |  |

|                   |                   |                           |                  |                                |                            |                               |  |  |  |
|-------------------|-------------------|---------------------------|------------------|--------------------------------|----------------------------|-------------------------------|--|--|--|
| <b>02= 2Pos.</b>  | <b>M= Male</b>    | <b>AU= Gold-Plated 3μ</b> | <b>BK= Black</b> | <b>NN= No special function</b> | <b>R= ROHS Conform</b>     | <b>BU= Bulk-Ware</b>          |  |  |  |
| <b>03= 3Pos.</b>  |                   |                           |                  |                                | <b>N= NON ROHS Conform</b> | <b>TY= Tray Package</b>       |  |  |  |
| <b>04= 4Pos.</b>  |                   |                           |                  |                                |                            | <b>IV= Individual Package</b> |  |  |  |
| <b>05= 5Pos.</b>  |                   |                           |                  |                                |                            |                               |  |  |  |
| <b>05B= 5Pos.</b> |                   |                           |                  |                                |                            |                               |  |  |  |
| <b>06= 6Pos.</b>  |                   |                           |                  |                                |                            |                               |  |  |  |
| <b>07= 7Pos.</b>  |                   |                           |                  |                                |                            |                               |  |  |  |
| <b>07B= 7Pos.</b> |                   |                           |                  |                                |                            |                               |  |  |  |
| <b>08= 8Pos.</b>  | <b>24= 24Pos.</b> |                           |                  |                                |                            |                               |  |  |  |
| <b>09= 9Pos.</b>  | <b>20= 20Pos.</b> |                           |                  |                                |                            |                               |  |  |  |
| <b>12= 12Pos.</b> | <b>19= 19Pos.</b> |                           |                  |                                |                            |                               |  |  |  |
| <b>14= 14Pos.</b> | <b>16= 16Pos.</b> |                           |                  |                                |                            |                               |  |  |  |

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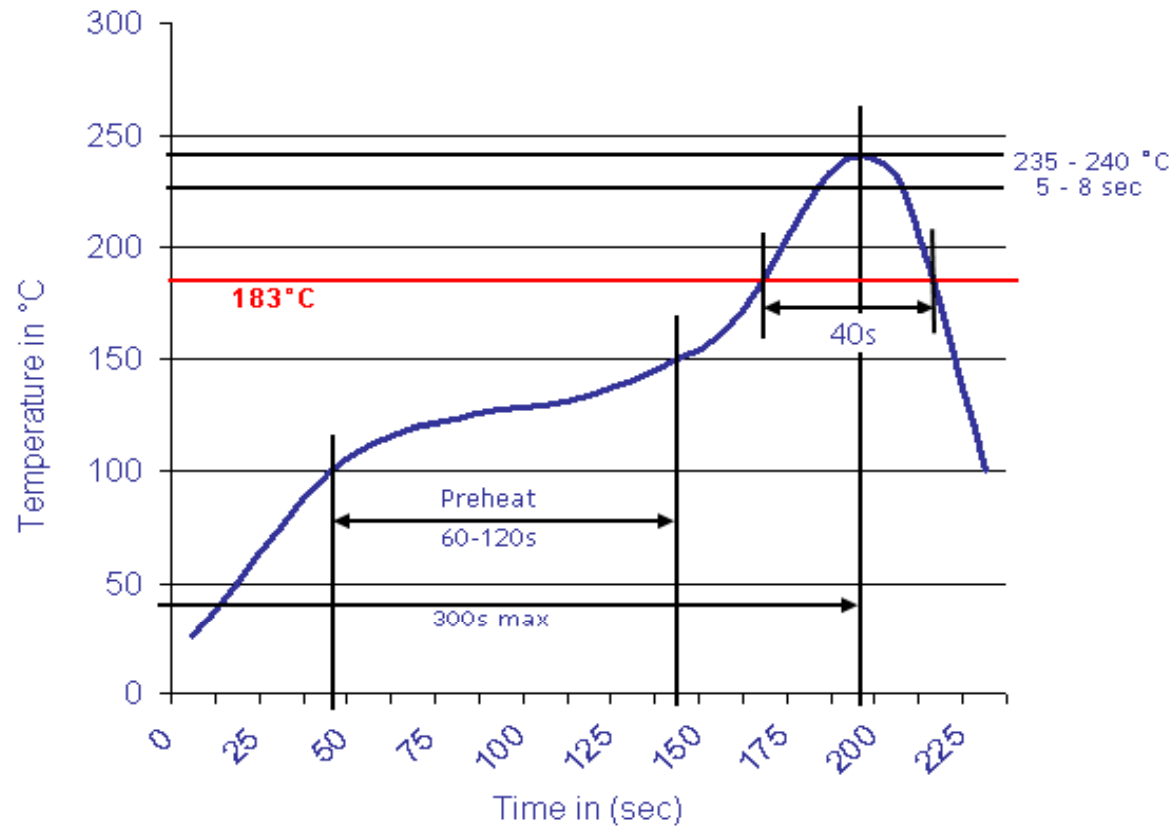


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### Soldering Profile Curve

### Classification Reflow Profile (JEDEC J-STD-020C)



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