

# Product sheet

## Miniature connector



|         |                                                                       |                |                            |
|---------|-----------------------------------------------------------------------|----------------|----------------------------|
| Product | <b>Contacts: 8 DIN, female cable connector, cable outlet 3 - 6 mm</b> | Area           | <b>M16 IP40 Series 680</b> |
| Pole    | <b>8 DIN</b>                                                          | Article number | <b>09 0572 00 08</b>       |

| Illustration | Scale drawing | Contact Arrangement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
|--------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|---|-------|------|---|------|------|---|------|------|---|-------|------|---|------|------|---|-------|-------|---|------|-------|---|------|-------|
|              |               | <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>-3,50</td><td>0,00</td></tr> <tr><td>2</td><td>0,00</td><td>3,50</td></tr> <tr><td>3</td><td>3,50</td><td>0,00</td></tr> <tr><td>4</td><td>-2,47</td><td>2,47</td></tr> <tr><td>5</td><td>2,47</td><td>2,47</td></tr> <tr><td>6</td><td>-2,47</td><td>-2,47</td></tr> <tr><td>7</td><td>2,47</td><td>-2,47</td></tr> <tr><td>8</td><td>0,00</td><td>-0,70</td></tr> </tbody> </table> |  | X | Y | 1 | -3,50 | 0,00 | 2 | 0,00 | 3,50 | 3 | 3,50 | 0,00 | 4 | -2,47 | 2,47 | 5 | 2,47 | 2,47 | 6 | -2,47 | -2,47 | 7 | 2,47 | -2,47 | 8 | 0,00 | -0,70 |
|              | X             | Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 1            | -3,50         | 0,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 2            | 0,00          | 3,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 3            | 3,50          | 0,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 4            | -2,47         | 2,47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 5            | 2,47          | 2,47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 6            | -2,47         | -2,47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 7            | 2,47          | -2,47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |
| 8            | 0,00          | -0,70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |   |   |   |       |      |   |      |      |   |      |      |   |       |      |   |      |      |   |       |       |   |      |       |   |      |       |

You can find the item description on the next page.

## Technical data

### Common values

|                          |                        |
|--------------------------|------------------------|
| Connector Design         | Female cable connector |
| Connector locking system | screw                  |
| Termination              | Solder                 |
| Wire gauge (mm)          | 0.75 mm <sup>2</sup>   |
| Wire gauge (AWG)         | 20                     |
| Cable outlet             | 3 - 6 mm               |
| Upper temperature        | 85 °C                  |
| Lower temperature        | -40 °C                 |

### Electrical values

|                       |                     |
|-----------------------|---------------------|
| Rated voltage         | 60 V                |
| Rated impulse voltage | 500 V               |
| Pollution degree      | 1                   |
| Overvoltage category  | I                   |
| Material group        | III                 |
| Rated current (40°C)  | 5 A                 |
| Volume resistivity    | ≤ 5 mΩ              |
| EMV compliance        | not shielded        |
| Degree of protection  | IP40                |
| Mechanical operation  | > 500 mating cycles |

### Material

|                          |                 |
|--------------------------|-----------------|
| Material of contact      | CuSn (Bronze)   |
| Contact plating          | Ag (Silver)     |
| Material of contact body | PBT (UL 94 V-0) |
| Material of housing      | PA (UL 94 HB)   |

Contacts: 8 DIN, female cable connector, cable outlet 3 - 6 mm, silver plated contacts

|         |                                                                                     |                        |                                              |
|---------|-------------------------------------------------------------------------------------|------------------------|----------------------------------------------|
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| Pole    |                                                                                     |                        |                                              |

Item description

