

# Product sheet

## Miniature connector



|         |   |                |                                |
|---------|---|----------------|--------------------------------|
| Product | <b>Contacts: 6 DIN, female cable connector, cable outlet 6 - 8 mm</b> | Area           | <b>Bayonet IP40 Series 678</b> |
| Pole    | <b>6 DIN</b>  | Article number | <b>99 0618 02 06</b>           |

| Illustration | Scale drawing | Contact Arrangement  |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
|--------------|---------------|--|--|---|---|---|-------|-------|---|-------|------|---|------|------|---|------|------|---|------|-------|---|------|------|
|              |               | <table border="1"> <thead> <tr> <th></th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-3,03</td> <td>-1,75</td> </tr> <tr> <td>2</td> <td>-3,03</td> <td>1,75</td> </tr> <tr> <td>3</td> <td>0,00</td> <td>3,50</td> </tr> <tr> <td>4</td> <td>3,03</td> <td>1,75</td> </tr> <tr> <td>5</td> <td>3,03</td> <td>-1,75</td> </tr> <tr> <td>6</td> <td>0,00</td> <td>0,00</td> </tr> </tbody> </table> |  | X | Y | 1 | -3,03 | -1,75 | 2 | -3,03 | 1,75 | 3 | 0,00 | 3,50 | 4 | 3,03 | 1,75 | 5 | 3,03 | -1,75 | 6 | 0,00 | 0,00 |
|              | X             | Y  |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
| 1            | -3,03         | -1,75  |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
| 2            | -3,03         | 1,75   |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
| 3            | 0,00          | 3,50   |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
| 4            | 3,03          | 1,75   |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
| 5            | 3,03          | -1,75  |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |
| 6            | 0,00          | 0,00   |  |   |   |   |       |       |   |       |      |   |      |      |   |      |      |   |      |       |   |      |      |

You can find the item description on the next page.

## Technical data

### Common values

|                          |                        |
|--------------------------|------------------------|
| Connector Design         | Female cable connector |
| Connector locking system | Bayonet                |
| Termination              | Solder                 |
| Wire gauge (mm)          | 0.75 mm <sup>2</sup>   |
| Wire gauge (AWG)         | 20                     |
| Cable outlet             | 6 - 8 mm               |
| Upper temperature        | 85 °C                  |
| Lower temperature        | -40 °C                 |

### Electrical values

|                       |                     |
|-----------------------|---------------------|
| Rated voltage         | 250 V               |
| Rated impulse voltage | 1500 V              |
| Pollution degree      | 1                   |
| Overvoltage category  | I                   |
| Material group        | III                 |
| Rated current (40°C)  | 6 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 V-0)  |

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