

| | |
|---------------------|---|
| Product description | M16 IP67 female cable connector, Contacts: 24, 6.0 - 8.0 mm, shieldable, solder, IP67, UL |
| Area | M16 IP67 series 423 |
| Order number | 99 5696 00 24 |

| Illustration | Scale drawing | Contact arrangement (Plug-in side) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---------------|---|--|----|----|---|-------|-------|---|-------|------|---|-------|------|---|-------|------|---|-------|------|---|-------|-------|---|-------|-------|---|-------|-------|---|-------|-------|----|-------|------|----|-------|------|----|-------|------|----|------|------|----|------|------|----|------|-------|----|------|-------|----|------|-------|----|------|-------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|-------|----|------|-------|
| | | <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>X1</th> <th>Y1</th> </tr> </thead> <tbody> <tr><td>1</td><td>-4,00</td><td>-1,50</td></tr> <tr><td>2</td><td>-4,00</td><td>0,35</td></tr> <tr><td>3</td><td>-4,00</td><td>2,20</td></tr> <tr><td>4</td><td>-2,40</td><td>3,10</td></tr> <tr><td>5</td><td>-2,40</td><td>1,30</td></tr> <tr><td>6</td><td>-2,40</td><td>-0,55</td></tr> <tr><td>7</td><td>-2,40</td><td>-2,40</td></tr> <tr><td>8</td><td>-0,80</td><td>-3,30</td></tr> <tr><td>9</td><td>-0,80</td><td>-1,50</td></tr> <tr><td>10</td><td>-0,80</td><td>0,35</td></tr> <tr><td>11</td><td>-0,80</td><td>2,20</td></tr> <tr><td>12</td><td>-0,80</td><td>4,00</td></tr> <tr><td>13</td><td>0,80</td><td>3,10</td></tr> <tr><td>14</td><td>0,80</td><td>1,30</td></tr> <tr><td>15</td><td>0,80</td><td>-0,55</td></tr> <tr><td>16</td><td>0,80</td><td>-2,40</td></tr> <tr><td>17</td><td>2,40</td><td>-3,30</td></tr> <tr><td>18</td><td>2,40</td><td>-1,50</td></tr> <tr><td>19</td><td>2,40</td><td>0,35</td></tr> <tr><td>20</td><td>2,40</td><td>2,20</td></tr> <tr><td>21</td><td>2,40</td><td>4,00</td></tr> <tr><td>22</td><td>4,00</td><td>1,30</td></tr> <tr><td>23</td><td>4,00</td><td>-0,55</td></tr> <tr><td>24</td><td>4,00</td><td>-2,40</td></tr> </tbody> </table> | | X1 | Y1 | 1 | -4,00 | -1,50 | 2 | -4,00 | 0,35 | 3 | -4,00 | 2,20 | 4 | -2,40 | 3,10 | 5 | -2,40 | 1,30 | 6 | -2,40 | -0,55 | 7 | -2,40 | -2,40 | 8 | -0,80 | -3,30 | 9 | -0,80 | -1,50 | 10 | -0,80 | 0,35 | 11 | -0,80 | 2,20 | 12 | -0,80 | 4,00 | 13 | 0,80 | 3,10 | 14 | 0,80 | 1,30 | 15 | 0,80 | -0,55 | 16 | 0,80 | -2,40 | 17 | 2,40 | -3,30 | 18 | 2,40 | -1,50 | 19 | 2,40 | 0,35 | 20 | 2,40 | 2,20 | 21 | 2,40 | 4,00 | 22 | 4,00 | 1,30 | 23 | 4,00 | -0,55 | 24 | 4,00 | -2,40 |
| | X1 | Y1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | -4,00 | -1,50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | -4,00 | 0,35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | -4,00 | 2,20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | -2,40 | 3,10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | -2,40 | 1,30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | -2,40 | -0,55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | -2,40 | -2,40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | -0,80 | -3,30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | -0,80 | -1,50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | -0,80 | 0,35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | -0,80 | 2,20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | -0,80 | 4,00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 0,80 | 3,10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 0,80 | 1,30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0,80 | -0,55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 0,80 | -2,40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 2,40 | -3,30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 2,40 | -1,50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 2,40 | 0,35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 2,40 | 2,20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 2,40 | 4,00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 4,00 | 1,30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 4,00 | -0,55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 4,00 | -2,40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

You can find the component part drawing on the next page.

Technical data

General features

| | |
|---------------------------|-------------------------------|
| Order number | 99 5696 00 24 |
| Connector design | female cable connector |
| Version | connector female straight |
| Connector locking system | screw |
| Termination | solder |
| Degree of protection | IP67 |
| Cross-sectional area | 0.14 mm ² / AWG 26 |
| Cable outlet | 6.0 - 8.0 mm |
| Temperature range from/to | -30 °C / 95 °C |
| Mechanical operation | > 500 Mating cycles |
| Weight (g) | 49.097 |
| Customs tariff number | 85369010 |

Authorization/approvals

| | |
|------------|----|
| Approval 1 | UL |
|------------|----|

Declarations of conformity

| | |
|-----------------------|--|
| Low Voltage Directive | 2014/35/EU (EN 60204-1:2018;EN 60529:1991) |
|-----------------------|--|

Electrical parameters

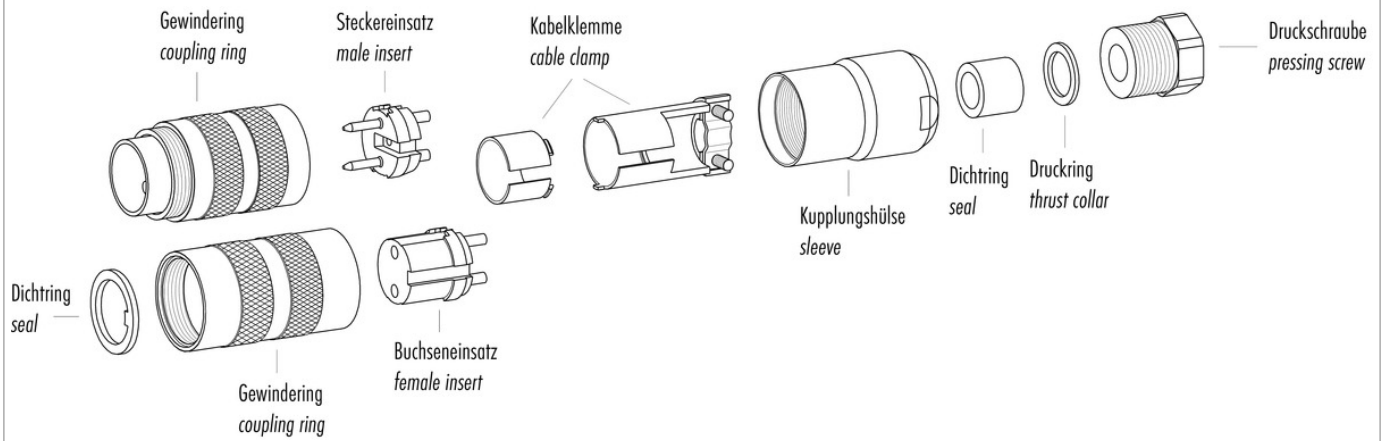
| | |
|---------------------------|----------------------|
| Rated voltage | 60 V |
| Rated impulse voltage | 500 V |
| Rated current (40 °C) | 1 A |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| Pollution degree | 1 |
| Overvoltage category | I |
| Insulating material group | III |
| EMC compliance | shieldable |

Material

| | |
|-----------------------|----------------------|
| Contact body material | PBT (UL94 V-0) |
| Contact material | CuSn (bronze) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |

| | |
|---------------------|---|
| Product description | M16 IP67 female cable connector, Contacts: 24, 6.0 - 8.0 mm, shieldable, solder, IP67, UL |
| Area | M16 IP67 series 423 |
| Order number | 99 5696 00 24 |

Component part drawing



| | |
|---------------------|---|
| Product description | M16 IP67 female cable connector, Contacts: 24, 6.0 - 8.0 mm, shieldable, solder, IP67, UL |
| Area | M16 IP67 series 423 |
| Order number | 99 5696 00 24 |

Security notices

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Plug connectors with enclosure protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre. To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 50 cNm).