

# Printed-circuit board connector - MC 1,5/ 3-ST-3,5 GY7035 - 1769061

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PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: light gray, contact surface: Tin


Figure shows the 5-pos. version

## Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 STK  |
| GTIN         | <br>4 046356 444620 |
| GTIN         | 4046356444620   |

## Technical data

### Dimensions

|              |         |
|--------------|---------|
| Length [ l ] | 16.1 mm |
| Width [ w ]  | 10.5 mm |
| Height [ h ] | 11.1 mm |
| Pitch        | 3.5 mm  |
| Dimension a  | 7 mm    |

### General

|                             |                                      |
|-----------------------------|--------------------------------------|
| Range of articles           | MC 1,5/...-ST                        |
| Type of contact             | Female connector                     |
| Number of positions         | 3                                    |
| Connection method           | Screw connection with tension sleeve |
| Insulating material group   | I                                    |
| Rated surge voltage (III/3) | 2.5 kV                               |

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## Technical data

### General

|  |                     |
|--|---------------------|
| Rated surge voltage (III/2)            | 2.5 kV              |
| Rated surge voltage (II/2)             | 2.5 kV              |
| Rated voltage (III/3)                  | 160 V               |
| Rated voltage (III/2)                  | 160 V               |
| Rated voltage (II/2)                   | 320 V               |
| Connection in acc. with standard       | EN-VDE              |
| Nominal current $I_N$                  | 8 A                 |
| Nominal cross section                  | 1.5 mm <sup>2</sup> |
| Maximum load current                   | 8 A                 |
| Insulating material                    | PA                  |
| Flammability rating according to UL 94 | V0                  |
| Internal cylindrical gage              | A1                  |
| Stripping length                       | 7 mm                |
| Screw thread                           | M2                  |
| Tightening torque, min                 | 0.22 Nm             |
| Tightening torque max                  | 0.25 Nm             |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.  | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 28                   |
| Conductor cross section AWG max.  | 16                   |
| 2 conductors with same cross section, solid min.  | 0.08 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.  | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.08 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 0.34 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL   | 30                   |
| Maximum AWG according to UL/CUL   | 14                   |

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## Technical data

### Standards and Regulations

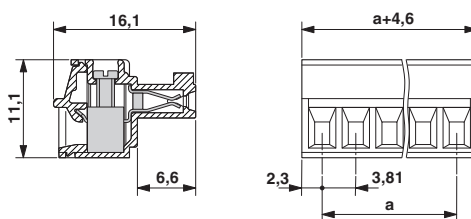
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Dimensional drawing



## Approvals

### Approvals

#### Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECCEB CB Scheme / cULus Recognized / EAC


#### Ex Approvals


### Approval details


|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | D     | B   |       |
| Nominal voltage UN         | 300 V | 300 V   |       |
| Nominal current IN         | 8 A   | 8 A   |       |
| mm <sup>2</sup> /AWG/kcmil | 28-16 | 28-16   |       |

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## Approvals

|   |   |   |          |
|---|---|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40011723 |
| Nominal voltage UN                      |   | 160 V   |          |
| Nominal current IN                      |   | 8 A   |          |
| mm <sup>2</sup> /AWG/kcmil              |   | 0.2-1.5   |          |

|                            |   |   |                |
|----------------------------|---|---|----------------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60604-B1B2 |
| Nominal voltage UN         |   | 160 V   |                |
| Nominal current IN         |   | 8 A   |                |
| mm <sup>2</sup> /AWG/kcmil |   | 0.2-1.5   |                |

|                            |   |   |                 |
|----------------------------|---|---|-----------------|
| cULus Recognized           |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-20110128 |
|                            | D   | B   |                 |
| Nominal voltage UN         | 300 V   | 300 V   |                 |
| Nominal current IN         | 8 A   | 8 A   |                 |
| mm <sup>2</sup> /AWG/kcmil | 30-14   | 30-14   |                 |

|     |   |         |
|-----|---|---------|
| EAC |  | B.01742 |
|-----|---|---------|

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