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# Photovoltaic connector - PV-FT-CM-C-6-500-RD - 1623390

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## Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 50 STK  |
| Minimum order quantity | 50 STK  |
| GTIN                   | <br>4 055626 139654 |
| GTIN                   | 4055626139654   |

## Technical data

### Dimensions

|                         |                 |
|-------------------------|-----------------|
| Fixed cable length      | 500 mm          |
| External cable diameter | 5.4 mm ±0.15 mm |

### Ambient conditions

|  |                          |
|--|--------------------------|
| Degree of protection (when plugged in) | IP66 / IP68 (2 m / 24 h) |
| Degree of protection (not plugged in)  | IP65                     |
| Ambient temperature (operation)        | -40 °C ... 85 °C         |
| Ambient temperature (assembly)         | -25 °C ... 50 °C         |

### General

|   |                   |
|---|-------------------|
| Design                                      | Pin               |
| Tightening torque nut                       | 1.8 Nm ±0.1 Nm    |
| Insertion force                             | 45 N ±10 N        |
| Disconnect force                            | 250 N ±50 N       |
| Pull-out force of cable >= disconnect force | > 80 N            |
| Rated voltage                               | 1500 V            |
| Rated current (6.0 mm <sup>2</sup> )        | 40 A              |
| Nominal cross section                       | 6 mm <sup>2</sup> |

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## Technical data

### General

|                  |    |
|------------------|----|
| Protection class | II |
|------------------|----|

### Material

|  |       |
|--|-------|
| Color                                  | black |
| Insulating material                    | mPPE  |
| Contact material                       | Cu    |
| Contact surface material               | Ag    |
| Flammability rating according to UL 94 | V0    |

### Connection data

|   |                   |
|---|-------------------|
| Connection method                           | Crimp             |
| Connection capacity                         | 6 mm <sup>2</sup> |
| Contact resistance with connected conductor | 0.45 mΩ           |
| Cable type                                  | S03               |

### Standards and Regulations

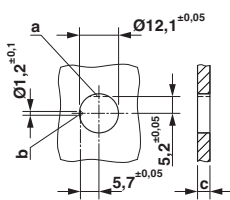
|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

### Environmental Product Compliance

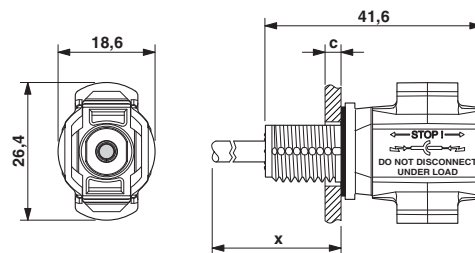
|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Dimensional drawing



Dimensional drawing



a: anti-rotation protection

b: coding

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

Dimension x = cable length

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

## Approvals

### Approvals

### Approvals


VDE approval of drawings / EAC / TÜV Rheinland

# Photovoltaic connector - PV-FT-CM-C-6-500-RD - 1623390

## Approvals

Ex Approvals

### Approval details

|                            |   |   |          |
|----------------------------|---|---|----------|
| VDE approval of drawings   |  | <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> | 40031807 |
| Nominal voltage UN         |   | 1500 V  |          |
| Nominal current IN         |   | 40 A  |          |
| mm <sup>2</sup> /AWG/kcmil |   | 6.0   |          |

|     |   |         |
|-----|---|---------|
| EAC |  | B.00767 |
|-----|---|---------|

|                    |   |            |
|--------------------|---|------------|
| TÜV Rheinland      | <a href="http://www.certipedia.com">http://www.certipedia.com</a> | R 60126961 |
| Nominal voltage UN |   | 1500 V     |

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