

## **PROCON SERIES K** Heavy-Duty Rectangular Connectors

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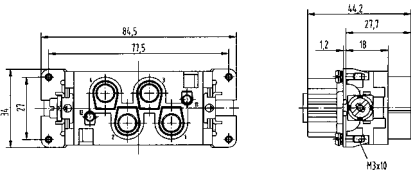
F. Walther Electric Corporation  
1 Kimberly Road, Suite 102, East Brunswick, NJ 08816  
Tel: (732) 238-1166 Fax: (732) 238-0764  
Web Site: [www.waltherelectric.com](http://www.waltherelectric.com)

| TYPE  | Technical Characteristics |     |     |             |                 |    |     |             | Suitable Hoods/Housings Size |
|-------|---------------------------|-----|-----|-------------|-----------------|----|-----|-------------|------------------------------|
|       | Power                     |     |     |             | Signal/Control  |    |     |             |                              |
|       | No. of Contacts           | A   | V~  | Termination | No. of Contacts | A  | V~  | Termination |                              |
| K 4/0 | 4 + G                     | 80  | 690 | Screw       | -               | -  | -   | -           | B16, B32                     |
| K 4/2 | 4 + G                     | 80  | 690 | Screw       | 2               | 16 | 400 | Screw       | B16, B32                     |
| K 4/8 | 4 + G                     | 80  | 400 | Screw       | 8               | 16 | 400 | Screw       | B24, B48                     |
| K 6/6 | 6 + G                     | 100 | 690 | Screw       | 6               | 16 | 400 | Screw       | B24, B48                     |
| K6/12 | 6 + G                     | 40  | 690 | Screw       | 12              | 10 | 400 | Screw       | B16, B32                     |

## SERIES K 4/0

### Part Number: FS4/0K

Description: Female Insert,  
4 Power (80Amps/690V), No Control



#### Specifications

DIN VDE 0627  
DIN VDE 0110

#### Approvals



#### Inserts

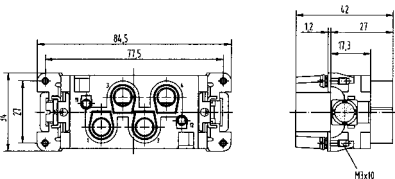
|                                |                      |
|--------------------------------|----------------------|
| Number of contacts             | 4 + G                |
| Working current                | 80A                  |
| Working Voltage                | 690V                 |
| Test voltage $U_{rms}$         | 4kV                  |
| Insulation group               | C                    |
| Insulation resistance          | $\geq 10^{10}\Omega$ |
| Material                       | Polycarbonate        |
| Temperature range              | -40°C...+125°C       |
| Flammability acc. to UL94      | V0                   |
| Mechanical working life        |                      |
| - Mating cycles                | $\geq 500$           |
| Working voltage acc. to UL/CSA | 600V                 |

#### Contacts

|                      |                         |
|----------------------|-------------------------|
| Material             | Copper alloy            |
| Surface              |                         |
| - hard-silver plated | 3µm Ag                  |
| Contact resistance   | $\leq 0.3 m\Omega$      |
| Screw terminal       |                         |
| - $mm^2$             | 1.5 – 16mm <sup>2</sup> |
| - AWG                | 16 – 6 AWG              |
| - Tightening torque  | 0.8 Nm                  |

### Part Number: MS4/0K

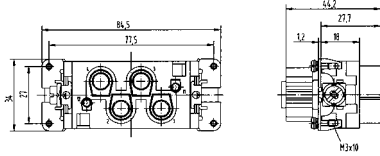
Description: Male Insert,  
4 Power (80Amps/690V), No Control



## Series K 4/2

### Part Number: FS4/2K

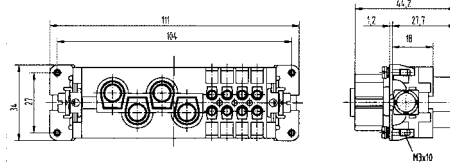
Description: Female Insert,  
4 Power (80Amps/690V), 2 Control (16A/400V)



## Series K 4/8

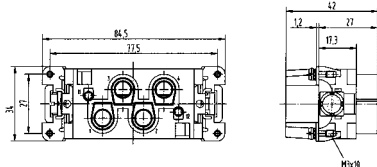
### Part Number: FS112K

Description: Female Insert,  
4 Power (80Amps/600V), 8 Control (16A/600V)



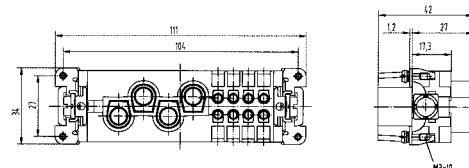
### Part Number: MS4/2K

Description: Male Insert,  
4 Power (80Amps/690V), 2 Control (16A/400V)



### Part Number: MS212K

Description: Male Insert,  
4 Power (80Amps/600V), 8 Control (16A/600V)



#### Specifications

DIN VDE 0627  
DIN VDE 0110

#### Approvals



#### Inserts

|                                |                       |
|--------------------------------|-----------------------|
| Number of contacts             | 4/2 + G               |
| Working current                | 80A / 16A             |
| Working Voltage                | 690V / 400V           |
| Test voltage $U_{rms}$         | 4kV / 3kV             |
| Insulation group               | C                     |
| Insulation resistance          | $\geq 10^{10} \Omega$ |
| Material                       | Polycarbonate         |
| Temperature range              | -40°C...+125°C        |
| Flammability acc. to UL94      | V0                    |
| Mechanical working life        |                       |
| - Mating cycles                | $\geq 500$            |
| Working voltage acc. to UL/CSA | 600V / 300V           |

#### Contacts

|                      |                                                |
|----------------------|------------------------------------------------|
| Material             | Copper alloy                                   |
| Surface              |                                                |
| - hard-silver plated | 3 $\mu$ m Ag                                   |
| Contact resistance   | $\leq 0.3 \text{ m}\Omega / 1 \text{ m}\Omega$ |
| Screw terminal       |                                                |
| - mm <sup>2</sup>    | 1.5 – 16 / 0.5 - 2.5                           |
| - AWG                | 16 – 6 / 20 - 14                               |
| - Tightening torque  | 0.8 Nm / 0.5 Nm                                |

#### Specifications

DIN VDE 0627  
DIN VDE 0110

#### Approvals



#### Inserts

|                                |                       |
|--------------------------------|-----------------------|
| Number of contacts             | 4/8 + G               |
| Working current                | 80A / 16A             |
| Working Voltage                | 400V / 400V           |
| Test voltage $U_{rms}$         | 3kV                   |
| Insulation group               | C                     |
| Insulation resistance          | $\geq 10^{10} \Omega$ |
| Material                       | Polycarbonate         |
| Temperature range              | -40°C...+125°C        |
| Flammability acc. to UL94      | HB                    |
| Mechanical working life        |                       |
| - Mating cycles                | $\geq 500$            |
| Working voltage acc. to UL/CSA | 600V / 600V           |

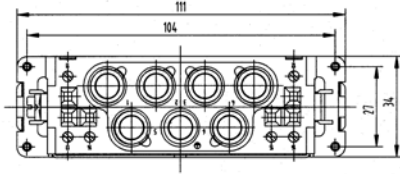
#### Contacts

|                      |                                                |
|----------------------|------------------------------------------------|
| Material             | Copper alloy                                   |
| Surface              |                                                |
| - hard-silver plated | 3 $\mu$ m Ag                                   |
| Contact resistance   | $\leq 0.3 \text{ m}\Omega / 1 \text{ m}\Omega$ |
| Screw terminal       |                                                |
| - mm <sup>2</sup>    | 1.5–16 / 0.5-2.5                               |
| - AWG                | 16–6 / 20-14                                   |
| - Tightening torque  | 0.8 Nm / 0.5 Nm                                |

## Series K 6/6

### Part Number: FS6/6K

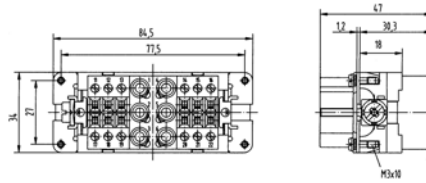
Description: Female Insert,  
6 Power (100Amps/690V), 6 Control (16A/400V)



## Series K 6/12

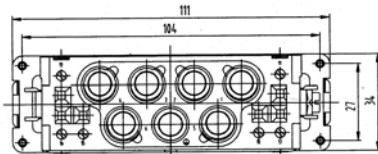
### Part Number: FS6/12K

Description: Female Insert,  
6 Power (40Amps/690V), 12 Control (10A/400V)



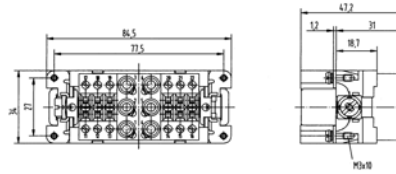
### Part Number: MS6/6K

Description: Male Insert,  
6 Power (100Amps/690V), 6 Control (16A/400V)



### Part Number: MS6/12K

Description: Male Insert,  
6 Power (40Amps/690V), 12 Control (10A/400V)



#### Specifications

DIN VDE 0627  
DIN VDE 0110

#### Approvals



#### Inserts

|                                |                      |
|--------------------------------|----------------------|
| Number of contacts             | 6/6 + G              |
| Working current                | 100A / 16A           |
| Working Voltage                | 690V / 400V          |
| Test voltage $U_{rms}$         | 4kV / 3kV            |
| Insulation group               | C                    |
| Insulation resistance          | $\geq 10^{10}\Omega$ |
| Material                       | Polycarbonate        |
| Temperature range              | -40°C...+125°C       |
| Flammability acc. to UL94      | V0                   |
| Mechanical working life        |                      |
| - Mating cycles                | $\geq 500$           |
| Working voltage acc. to UL/CSA | 600V / 300V          |

#### Contacts

|                      |                                              |
|----------------------|----------------------------------------------|
| Material             | Copper alloy                                 |
| Surface              |                                              |
| - hard-silver plated | 3µm Ag                                       |
| Contact resistance   | $\leq 0.5 \text{ m}\Omega / 3\text{m}\Omega$ |
| Screw terminal       |                                              |
| - mm <sup>2</sup>    | 16 - 35 / 0.2 - 2.5                          |
| - AWG                | 5 - 2 / 24 - 13                              |
| - Tightening torque  | 6 Nm / 0.8 Nm                                |

#### Specifications

DIN VDE 0627  
DIN VDE 0110

#### Approvals



#### Inserts

|                                |                      |
|--------------------------------|----------------------|
| Number of contacts             | 6/12 + G             |
| Working current                | 40A / 10A            |
| Working Voltage                | 690V / 400V          |
| Test voltage $U_{rms}$         | 3kV / 2kV            |
| Insulation group               | C                    |
| Insulation resistance          | $\geq 10^{10}\Omega$ |
| Material                       | Polycarbonate        |
| Temperature range              | -40°C...+125°C       |
| Flammability acc. to UL94      | V0                   |
| Mechanical working life        |                      |
| - Mating cycles                | $\geq 500$           |
| Working voltage acc. to UL/CSA | 600V / 300V          |

#### Contacts

|                      |                                              |
|----------------------|----------------------------------------------|
| Material             | Copper alloy                                 |
| Surface              |                                              |
| - hard-silver plated | 3µm Ag                                       |
| Contact resistance   | $\leq 0.5 \text{ m}\Omega / 3\text{m}\Omega$ |
| Screw terminal       |                                              |
| - mm <sup>2</sup>    | 2.5 - 10 / 0.2 - 2.5                         |
| - AWG                | 14 - 8 / 24 - 14                             |
| - Tightening torque  | 1 Nm / 0.8 Nm                                |
| Max. insulation      |                                              |
| - Power contacts     | $\varnothing = 5 \text{ mm}$                 |