

03 KV ...-8 C

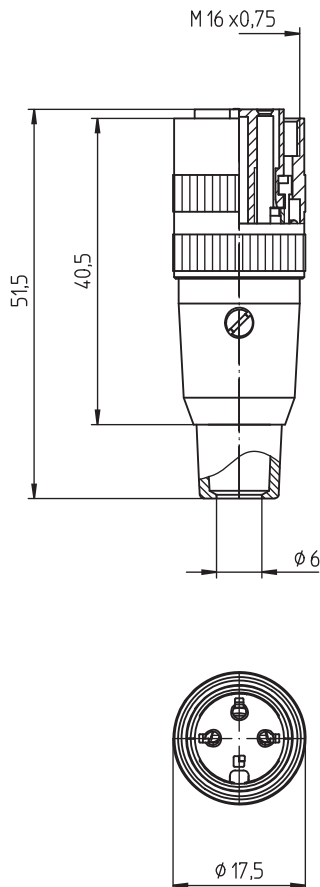
Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP68



Socket acc. to IEC 61076-2-106, IP40, straight version, with threaded joint, empty housing for reception of crimp contacts, with bend protection, for cable diameter up to 8 mm

03

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#### Environmental conditions

Temperature range -40 °C/+85 °C

#### Materials

|                        |                              |
|------------------------|------------------------------|
| Insulating body        | PA GF, V-0 according to UL94 |
| Sleeve                 | PC, HB according to UL94     |
| Strain relief          | steel, nickel-plated         |
| Housing                | CuZn, nickel-plated          |
| Knurled nut            | CuZn, nickel-plated          |
| Bend protection sleeve | TPE                          |
| Screw                  | steel, nickel-plated         |

#### Mechanical data

Tightening torque connector 1–3 Nm

Protection class IP40<sup>1</sup>

<sup>1</sup> according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

#### Connectable conductors for crimp area

Cable diameter 6–8 mm

#### Electrical data (at T<sub>amb</sub> 20 °C)

|                       |                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact resistance    | ≤ 5 mΩ                                                                                                                                                                                                                         |
| Rated current         | 5 A (T <sub>amb</sub> 40 °C)                                                                                                                                                                                                   |
| Rated voltage         | with pollution degree 1:<br>300 V (versions 30, 40, 50/6, 60, 70)<br>100 V (versions 50, 71, 80, 81)<br>with pollution degree 2:<br>250 V (versions 30, 40)<br>32 V (versions 50, 71, 80, 81)<br>160 V (versions 50/6, 60, 70) |
| Rated impulse voltage | 1500 V (versions 30, 40, 50/6, 60, 70)<br>500 V (versions 50, 71, 80, 81)                                                                                                                                                      |
| Material group        | II (IEC)/I (UL) (400 ≤ CTI < 600)                                                                                                                                                                                              |
| Overvoltage category  | I                                                                                                                                                                                                                              |
| Insulation resistance | > 100 MΩ                                                                                                                                                                                                                       |

#### Associated products

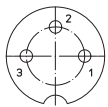
##### Counterparts

|            |            |            |
|------------|------------|------------|
| ☞ SFV      | ☞ SFV      | ☞ SGR      |
| ☞ SGR      | ☞ SGV      | ☞ SGV      |
| ☞ SV       | ☞ SV       | ☞ SV ... C |
| ☞ SV ...-8 | ☞ SV ...-8 | ☞ WSV      |

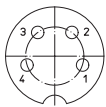
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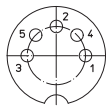
Pin configurations, crimp side view



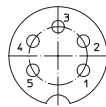
03-a  
KV 30-8 C



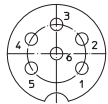
04-a  
KV 40-8 C



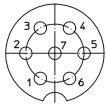
05-b  
KV 50-8 C



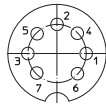
05-a  
KV 50/6-8 C



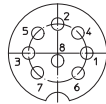
06-a  
KV 60-8 C



07-a  
KV 70-8 C



07-b  
KV 71-8 C



08-a  
KV 81-8 C

☞ WSV ... C

Accessories

☞ 0364

☞ 0381

☞ 038199

☞ 038799

03

KV ...-8 C

| Designation | Pole Number | PU (Pieces) | MDQ (Pieces) |
|-------------|-------------|-------------|--------------|
| KV 30-8 C   | 3           | 50          | 100          |
| KV 40-8 C   | 4           | 50          | 100          |
| KV 50-8 C   | 5           | 50          | 100          |
| KV 50/6-8 C | 5           | 50          | 100          |
| KV 60-8 C   | 6           | 50          | 100          |
| KV 70-8 C   | 7           | 50          | 100          |
| KV 71-8 C   | 7           | 50          | 100          |
| KV 81-8 C   | 8           | 50          | 100          |

**Packaging:**

pre-assembled, in a cardboard box