

## Type codes

|     |                            |  |
|-----|----------------------------|--|
| 001 | Series                     |  |
| KVI | Connecting cable           |  |
| 002 | Use                        |  |
| CP  | CPI interface              |  |
| 003 | Cable characteristic       |  |
| 3   | Suitable for energy chains |  |
| 004 |                            |  |
| GS  | Straight plug              |  |
| WS  | Angled plug                |  |

|      |                                                     |  |
|------|-----------------------------------------------------|--|
| 005  | Connection technology on the right, controller side |  |
| GD   | Straight socket                                     |  |
| WD   | Angled socket                                       |  |
| 006  | Cable length [m]                                    |  |
| 0,25 | 0.25 m                                              |  |
| 0,5  | 0.5 m                                               |  |
| 2,0  | 2 m                                                 |  |
| 5,0  | 5 m                                                 |  |
| 8,0  | 8 m                                                 |  |

Datasheet

Connecting cable KVI-CP

- Connecting cable
- Pre-assembled at both ends
- For connecting components of the installation system CPI
- Cable lengths 0.25 ... 8 m



| General technical data |                 |
|------------------------|-----------------|
| Cable designation      | Via accessories |

| Technical data – Electrical connection 1 |                   |
|------------------------------------------|-------------------|
| Function                                 | Field device side |
| Connection type                          | Socket            |
| Cable outlet                             | Angled/straight   |
| Design                                   | Round             |
| Connection technology                    | M9x0.5            |
| Number of pins/cores                     | 5                 |
| Assigned pins/cores                      | 5                 |
| Type of mounting                         | Screw-type lock   |

| Technical data – Electrical connection 2 |                 |
|------------------------------------------|-----------------|
| Function                                 | Controller side |
| Connection type                          | Plug            |
| Cable outlet                             | Angled/straight |
| Design                                   | Round           |
| Connection technology                    | M9x0.5          |
| Number of pins/cores                     | 5               |
| Assigned pins/cores                      | 5               |
| Type of mounting                         | Screw-type lock |

| Technical data – Electrics     |        |                                  |
|--------------------------------|--------|----------------------------------|
| Operating voltage range        | [V DC] | 0 ... 30                         |
| Surge resistance               | [kV]   | 1.5                              |
| Current rating at 40°C         | [A]    | 1.6                              |
| Note on current rating at 40°C |        | 2.3 A for 0.34 mm²               |
|                                |        | 3.6 A for 0.49 mm²               |
| Pollution degree               |        | 1                                |
| Contact durability             |        | 500                              |
| Additional functions           |        | Contact 3 of socket 1 mm leading |

## Datasheet

| Technical data – Cable                      |                    |                                     |           |
|---------------------------------------------|--------------------|-------------------------------------|-----------|
| Cable diameter                              | [mm]               | 5.5                                 |           |
| Cable composition                           | [mm <sup>2</sup> ] | 2x0.25 + 2x0.34 + 0.49              |           |
|                                             |                    | Shielded                            |           |
| Nominal conductor cross section             | [mm <sup>2</sup> ] | 0.25                                | 0.34 0.49 |
| Cable characteristic                        |                    | Suitable for use with energy chains |           |
| Bending radius, flexible cable installation | [mm]               | ≥75                                 |           |
| Test conditions, cable                      |                    | Test conditions on request          |           |

| Materials              |                                          |
|------------------------|------------------------------------------|
| Housing                | PA, PBT, TPE-U(PUR)                      |
| Housing colour         | Black                                    |
| Screw-type lock        | Brass, nickel-plated                     |
| Pin contacts           | Bronze, gold-plated<br>Gold-plated brass |
| Cable sheath           | TPE-U(PUR)                               |
| Cable sheath colour    | Light grey                               |
| Insulating sheath      | TPE-U(PUR)                               |
| Note on materials      | RoHS-compliant                           |
| LABS (PWIS) conformity | VDMA24364-B2-L                           |

| Operating and environmental conditions                     |                        |
|------------------------------------------------------------|------------------------|
| Ambient temperature                                        | [°C] –20 ... +80       |
| Ambient temperature with flexible cable installation       | [°C] –5 ... +80        |
| Corrosion resistance class CRC <sup>1)</sup>               | 1                      |
| CE marking (see declaration of conformity) <sup>2)</sup>   | To EU RoHS Directive   |
| UKCA marking (see declaration of conformity) <sup>2)</sup> | To UK RoHS regulations |
| Degree of protection                                       | IP65<br>IP67           |
| Note on degree of protection                               | In mounted state       |

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

2) More information [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

Datasheet

| Circuitry (socket/plug view) |         |                           |         |                         |
|------------------------------|---------|---------------------------|---------|-------------------------|
| Electrical connection 1      | Pin     | Wire colour <sup>1)</sup> | Pin     | Electrical connection 2 |
|                              | 1       | YE                        | 1       |                         |
|                              | 2       | GY                        | 2       |                         |
|                              | 3       | GN                        | 3       |                         |
|                              | 4       | WH                        | 4       |                         |
|                              | 5       | BN                        | 5       |                         |
|                              | Housing | Shielding                 | Housing |                         |

1) According to IEC 757

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

KVI-CP-3-WSWD-...

[1] Cable lengths 0.25 m, 0.5 m, 2 m, 5 m, or 8 m depending on the order

KVI-CP-3-GSGD-...

[1] Cable length 2 m, 5 m or 8 m, depending on the order

| Ordering data                   |                  |            |          |                     |
|---------------------------------|------------------|------------|----------|---------------------|
| Electrical connection           | Cable length [m] | Weight [g] | Part no. | Type                |
| Straight socket – straight plug | 2                | 113.8      | 540332   | KVI-CP-3-GS-GD-2    |
|                                 | 5                | 255.4      | 540333   | KVI-CP-3-GS-GD-5    |
|                                 | 8                | 397        | 540334   | KVI-CP-3-GS-GD-8    |
| Angled socket – angled plug     | 0.25             | 33.6       | 540327   | KVI-CP-3-WS-WD-0.25 |
|                                 | 0.5              | 45.4       | 540328   | KVI-CP-3-WS-WD-0.5  |
|                                 | 2                | 116.2      | 540329   | KVI-CP-3-WS-WD-2    |
|                                 | 5                | 257.8      | 540330   | KVI-CP-3-WS-WD-5    |
|                                 | 8                | 399.4      | 540331   | KVI-CP-3-WS-WD-8    |

| Ordering data – Accessories |                                                                      |          | Part no. | Type  |
|-----------------------------|----------------------------------------------------------------------|----------|----------|-------|
|                             | Inscription labels for attaching to a cable with diameter 5 ... 8 mm | 11x20 mm | 33361    | KM-BZ |

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Subject to change