

Connecting cables for valves, plug pattern ZC, metric screw

Type codes

NEBV - Z4 WA 2 L - R - E - 5 - N - M8 G 3 - S1

Function

| | |
|------|------------------------------|
| NEBV | Connecting cables for valves |
|------|------------------------------|

Connection technology on left, field device side

| | |
|----|---------------------------------------|
| Z4 | Socket, plug pattern ZC, metric screw |
|----|---------------------------------------|

Cable outlet left

| | |
|----|------------|
| WA | Angled 45° |
|----|------------|

Number of pins/wires, left

| | |
|---|-------|
| 2 | 2-pin |
|---|-------|

Display

| | |
|---|-------------------|
| - | None |
| L | Signal status LED |

Circuitry

| | |
|---|--|
| - | None |
| P | Integrated protective circuit |
| R | Holding current reduction with integrated protective circuit |

Cable characteristic

| | |
|---|----------------------------|
| E | Suitable for energy chains |
|---|----------------------------|

Cable length

| | |
|-----|-------|
| 0,2 | 0.2 m |
| 0,5 | 0.5 m |
| 2,5 | 2.5 m |
| 5 | 5 m |
| 10 | 10 m |

Cable designation

| | |
|---|----------------------------------|
| N | Without inscription label holder |
|---|----------------------------------|

Connection technology on right, controller side

| | |
|----|---|
| LE | Open end |
| M8 | Plug M8x1, A-coded, EN 61076-2-104 |
| Z1 | Plug, plug pattern ZB, self-tapping screw |

Cable outlet right

| | |
|---|----------|
| - | Open end |
| G | Straight |
| W | Angled |

Number of pins/wires, right

| | |
|---|-------|
| 2 | 2-pin |
| 3 | 3-pin |

Degree of protection for electrics

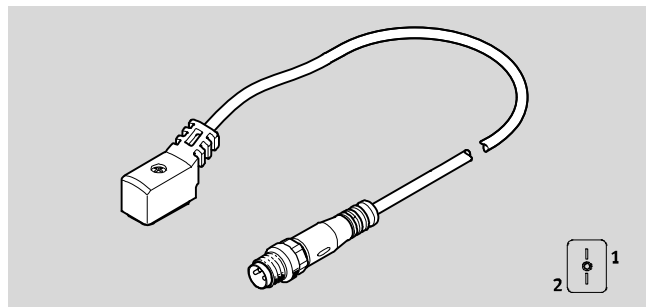
| | |
|----|------|
| S1 | IP65 |
|----|------|

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Technical data

Connecting cable NEBV-Z4WA2

- Connecting cable
- Pre-assembled at both ends
- For connecting valves



| General technical data | | | |
|-------------------------|--|----------------------------------|--|
| Electrical connection 1 | | | |
| Function | Field device side | | |
| Connection type | Socket | | |
| Cable outlet | Angled | | |
| Design | Square | | |
| Connection technology | Plug pattern ZC, metric screw | | |
| Number of pins/wires | 2 | | |
| Assigned pins/wires | 2 | | |
| Type of mounting | On solenoid valve via central screw M2 | | |
| Electrical connection 2 | | | |
| Function | Controller side | | |
| Connection type | Cable | Plug | Plug |
| Cable outlet | – | Straight | Angled |
| Design | – | Round | Square |
| Connection technology | Open end | M8x1, A-coded, to EN 61076-2-104 | Plug pattern ZB, self-tapping screw |
| Number of pins/wires | 2 | 3 | 2 |
| Assigned pins/wires | 2 | 2 | 2 |
| Type of mounting | – | – | On solenoid valve via self-tapping screw |

| Technical data – Electrical | | |
|--------------------------------------|--------|---------------|
| Nominal operating voltage | [V DC] | 24 |
| Operating voltage range | [V DC] | 20.4 ... 26.4 |
| Surge resistance | [kV] | 2.4 |
| Degree of contamination | | 3 |
| Connection frequency | | 50 |
| Protection against polarity reversal | | Bipolar |
| Protective earth connection | | Not present |

| Technical data – Cable | | |
|---|--------------------|-------------------------------------|
| Cable composition | [mm ²] | 2 x 0.14 |
| Cable diameter | [mm] | 2.9 |
| Cable diameter tolerance | [%] | ±0.1 |
| Conductor nominal cross section | [mm ²] | 0.14 |
| Cable characteristic | | Suitable for use with energy chains |
| Cable test conditions | | Test conditions on request |
| Bending radius, flexible cable installation | [mm] | ≥29 |
| Cable identification | | Without inscription label holder |

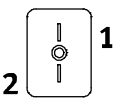
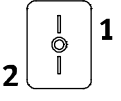
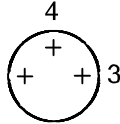
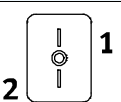
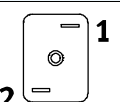
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Technical data

| Materials | | | |
|-------------------------|-------------------------|----------------------------------|-------------------------------------|
| Electrical connection 2 | Connection technology | | |
| | Open end | M8x1, A-coded, to EN 61076-2-104 | Plug pattern ZB, self-tapping screw |
| Housing | TPE-U (PUR) | TPE-U (PUR) | TPE-U (PUR) |
| Housing colour | Black | Black | Black |
| Union nut | – | Nickel-plated brass | – |
| Insulating sheath | PP | PP | PP |
| Screws | Stainless steel | Stainless steel | Stainless steel |
| Pin contacts | Tin-plated copper alloy | Tin-plated copper alloy | Tin-plated copper alloy |
| | – | Gold-plated brass | – |
| Cable sheath | TPE-U (PUR) | TPE-U (PUR) | TPE-U (PUR) |
| Cable sheath colour | Grey | Grey | Grey |
| Note on materials | RoHS compliant | RoHS compliant | RoHS compliant |

| Operating and environmental conditions | | |
|--|-----------------------------------|-----------------------------------|
| Additional functions | With holding current reduction | Without holding current reduction |
| Ambient temperature [°C] | –10 ... +50 | –10 ... +50 |
| CE marking (see declaration of conformity) | To EU EMC Directive ¹⁾ | – |
| Degree of protection | IP65 | IP65 |
| Note on degree of protection | In mounted state | In mounted state |

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → Certificates.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

| Circuitry (socket/plug view) | | | | |
|---|-----|---------------------------|-----|---|
| Electrical connection 1 | Pin | Wire colour ¹⁾ | Pin | Electrical connection 2 |
| Electrical connection 2, connection technology open end | | | | |
|  | 1 | BK | – | Open end |
| | 2 | BK | – | |
| Electrical connection 2, connection technology M8x1 A-coded to EN 61076-2-104 | | | | |
|  | 1 | BK | 1 |  |
| | 2 | BK | 3 | |
| Electrical connection 2, connection technology plug pattern ZB, self-tapping screw | | | | |
|  | 1 | BK | 1 |  |
| | 2 | BK | 2 | |

1) To IEC 757

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Technical data

Dimensions Download CAD data → www.festo.com

Electrical connection 2, connection technology open end

1 Mounting screw
2 Wire-end sleeve
3 Cable, length depending on order

Electrical connection 2, connection technology M8x1 A-coded to EN 61076-2-104

1 Mounting screw
3 Cable, length depending on order
4 Plug, M8x1, A-coded to EN 61076-2-104

| Type | B1 | D1 Ø | D2 | D3 Ø | H1 | H2 | L1 | L2 | L3 | L5 | ⊕1 |
|-------------------------|-----|---------|------|---------|----|------|------|----|------|-----|----|
| NEBV-Z4WA2L-...-LE2-S1 | 9.7 | 2.9 | - | - | 12 | 17.5 | 26.9 | 19 | 50 | 8.4 | - |
| NEBV-Z4WA2L-...-M8G3-S1 | 9.7 | 2.9 | M8x1 | 10 | 12 | 17.5 | 26.9 | 19 | 41.1 | 8.4 | 9 |

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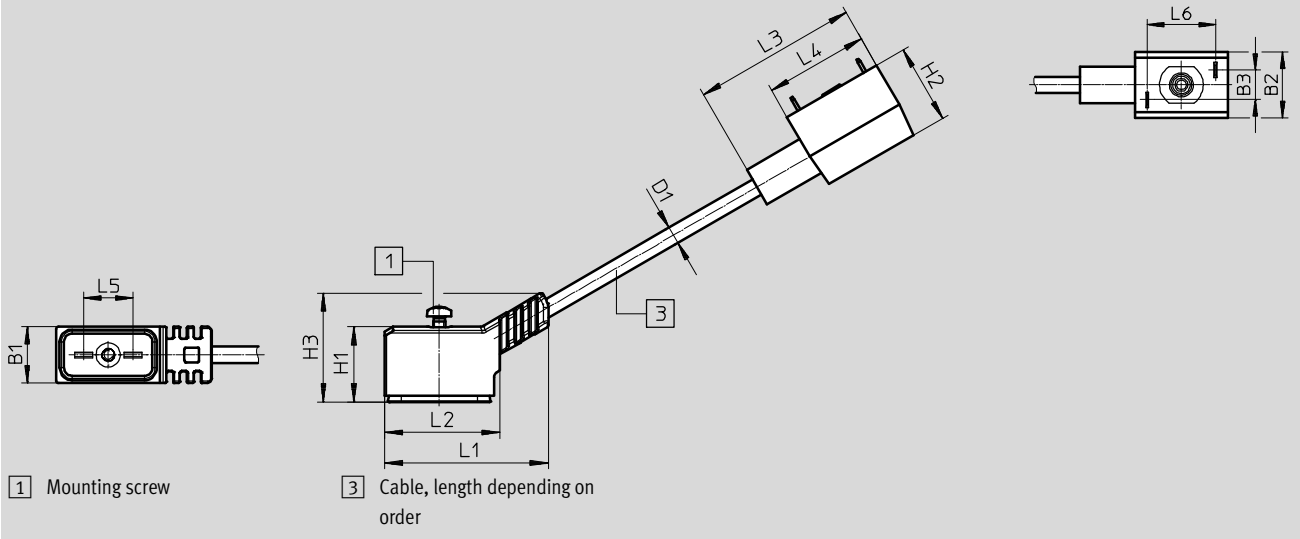
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com

Electrical connection 2, connection technology plug pattern ZB, self-tapping screw



| Type | B1 | B2 | B3 | D1 ∅ | H1 | H2 | H3 | L1 | L2 | L3 | L4 | L5 | L6 |
|-----------------------|-----|-----|-----|---------|----|----|------|------|----|----|----|-----|------|
| NEBV-Z4WA2...-Z1W2-S1 | 9.7 | 9.7 | 5.4 | 2.9 | 12 | 13 | 17.5 | 26.9 | 19 | 27 | 17 | 8.4 | 12.5 |

Ordering data

| | Additional functions | Signal status display | Cable length [m] | Weight [g] | Part No. | Type |
|--|---|-----------------------|------------------|------------|----------------|--------------------------------------|
| Electrical connection 2, connection technology open end | | | | | | |
| | Protective circuit | Yellow LED | 2.5 | 50 | 8047671 | NEBV-Z4WA2L-P-E-2.5-N-LE2-S1 |
| | | | 5 | 90 | 8047672 | NEBV-Z4WA2L-P-E-5-N-LE2-S1 |
| | | | 10 | 170 | 8047670 | NEBV-Z4WA2L-P-E-10-N-LE2-S1 |
| | Holding current reduction, protective circuit | Yellow LED | 2.5 | 50 | 8047679 | NEBV-Z4WA2L-R-E-2.5-N-LE2-S1 |
| | | | 5 | 90 | 8047680 | NEBV-Z4WA2L-R-E-5-N-LE2-S1 |
| | | | 10 | 170 | 8047678 | NEBV-Z4WA2L-R-E-10-N-LE2-S1 |
| Electrical connection 2, connection technology M8x1 A-coded to EN 61076-2-104 | | | | | | |
| | Protective circuit | Yellow LED | 0.5 | 18 | 8047673 | NEBV-Z4WA2L-P-E-0.5-N-M8G3-S1 |
| | | | 2.5 | 54 | 8047674 | NEBV-Z4WA2L-P-E-2.5-N-M8G3-S1 |
| | Holding current reduction, protective circuit | Yellow LED | 0.5 | 18 | 8047683 | NEBV-Z4WA2L-R-E-0.5-N-M8G3-S1 |
| | | | 2.5 | 54 | 8047684 | NEBV-Z4WA2L-R-E-2.5-N-M8G3-S1 |
| Electrical connection 2, connection technology plug pattern ZB, self-tapping screw | | | | | | |
| | Operating voltage range 0 ... 30 V DC | – | 0.2 | 18 | 8047681 | NEBV-Z4WA2-E-0.2-N-Z1W2-S1 |
| | Holding current reduction, protective circuit | Yellow LED | 0.2 | 18 | 8047682 | NEBV-Z4WA2L-R-E-0.2-N-Z1W2-S1 |

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Ordering data – Modular product system

| Ordering table | | Condi- tions | Code | Entry code |
|----------------|--|--|-------------|---------------|
| M | Module no. | 8003577 | | |
| | Connecting cable | Connecting cables for valves | NEBV | NEBV |
| | Connection technology on left, field device side | Socket, plug pattern ZC, metric screw | -Z4 | -Z4 |
| | Cable outlet, left | Angled 45° | WA | WA |
| | Number of pins/wires, left | 2-pin | 2 | 2 |
| O | Display | None Signal status LED | L | |
| | Circuitry | None | 1 | |
| | | Integrated protective circuit | 2 | -P |
| | | Holding current reduction with integrated protective circuit | | -R |
| M | Cable characteristic | Suitable for use with energy chains | -E | -E |
| | Line length | [m] 0.2 | 1 | -0,2 |
| | | [m] 0.5 | 3 | -0,5 |
| | | [m] 2.5 | 2 | -2,5 |
| | | [m] 5 | 4 | -5 |
| | | [m] 10 | 4 | -10 |
| | Cable identification | Without inscription label holder | -N | -N |
| | Connection technology on right, control side | Open end | -LE | |
| | | Plug connector M8x1, A-coded, EN 61076-2-104 | -M8 | |
| | | Plug, plug pattern ZB, self-tapping screw | -Z1 | |
| O | Cable outlet right | None | | |
| | | Straight | G | |
| | | Angled | W | |
| M | Number of pins/wires, right | 2-pin | 2 | |
| | | 3-pin | 3 | |
| | Degree of protection for electrics | IP65 | -S1 | -S1 |

- 1** -0,2 Only with connection technology on right Z1
- 2** -P, -2,5 Not with connection technology on right Z1
- 3** -0,5, 3 Only with connection technology on right M8
- 4** -5, -10 Only with connection technology on right LE

M Mandatory data
O Options

Transfer order code

8003577 NEBV - Z4 WA 2 - - E - N - S1