

**FBC PA M12 M-FM 2M****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

The most reliable way of achieving connections between two I/O slaves or between the control and one I/O subscriber is by way of pre-assembled cables. The line of cables covers PROFIBUS, CANopen, DeviceNet™, EtherCAT and Ethernet.

**General ordering data**

|            |                                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Bus line, Connecting line, M12 / M12, Number of poles: 2, 2 m, pin, straight - socket, straight, Shielded: Yes, LED: No, Sheath material: PVC, Halogen: Yes |
| Order No.  | <a href="#">1785100200</a>                                                                                                                                  |
| Type       | FBC PA M12 M-FM 2M                                                                                                                                          |
| GTIN (EAN) | 4032248194728                                                                                                                                               |
| Qty.       | 1 pc(s).                                                                                                                                                    |

Creation date March 25, 2021 7:47:00 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Length     | 2,000 mm | Length (inches) | 78.74 inch |
| Net weight | 191 g    |                 |            |

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Technical specifications for cable

|                                     |                    |        |
|-------------------------------------|--------------------|--------|
| Bending radius, min., moving        | 8 x cable diameter |        |
| Bending radius, min., stationary    | 8 x cable diameter |        |
| Cable length                        | 2 m                |        |
| Colour coding                       | red, green         |        |
| Configurable cable length           | No                 |        |
| Core cross-section                  | 1 mm <sup>2</sup>  |        |
| Halogen                             | Yes                |        |
| Housing main material               | PUR                |        |
| Hybrid cable                        | No                 |        |
| Insulation                          | PE                 |        |
| Irradiation crosslinked             | No                 |        |
| Number of poles                     | 2                  |        |
| Number of poles                     | 2                  |        |
| Outer diameter                      | 8.0 ± 0.4 mm       |        |
| Outside diameter                    | 8 mm ± 0.4 mm      |        |
| Outside diameter                    | Diameter           | 8 mm   |
|                                     | Signs              | ±      |
|                                     | Tolerance          | 0.4 mm |
| Resistant to welding beads          | No                 |        |
| Sheath material                     | PVC                |        |
| Sheathing colour                    | black              |        |
| Shielded                            | Yes                |        |
| Suitable for cable carriers         | No                 |        |
| Temperature range, moving           | -5...60 °C         |        |
| Temperature range, moving, max.     | 60 °C              |        |
| Temperature range, moving, min.     | -5 °C              |        |
| Temperature range, stationary       | -30...80 °C        |        |
| Temperature range, stationary, max. | 80 °C              |        |
| Temperature range, stationary, min. | -30 °C             |        |

## General technical data

|                              |                   |                        |                                  |
|------------------------------|-------------------|------------------------|----------------------------------|
| Coding                       | A                 | Connection thread      | M12 / M12                        |
| Contact surface              | Gold-plated       | Housing main material  | PUR                              |
| Insulation strength          | 10 <sup>8</sup> Ω | LED                    | No                               |
| Plugging cycles              | ≥ 100             | Pollution severity     | 3                                |
| Protection degree            | IP67              | Rated voltage          | 100 V                            |
| Temperature range of housing | -25...+80 °C      | Threaded ring material | Brass, nickel-plated             |
| Tightening torque            | M12: 0.8 - 1.2 Nm | Version                | pin, straight - socket, straight |
| jumpered                     | No                |                        |                                  |

## Electrical properties

|                     |                   |               |       |
|---------------------|-------------------|---------------|-------|
| Insulation strength | 10 <sup>8</sup> Ω | Rated voltage | 100 V |
|---------------------|-------------------|---------------|-------|

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**Technical data****Cable structure**

|                  |            |            |    |
|------------------|------------|------------|----|
| Colour coding    | red, green | Insulation | PE |
| Sheathing colour | black      |            |    |

**Electrical properties of cable**

|                     |               |
|---------------------|---------------|
| Insulation strength | $10^8 \Omega$ |
|---------------------|---------------|

**Mechanical and material properties of cable**

|         |     |
|---------|-----|
| Halogen | Yes |
|---------|-----|

**Plug, right**

|                 |             |                       |     |
|-----------------|-------------|-----------------------|-----|
| Contact surface | Gold-plated | Housing main material | PUR |
| Plugging cycles | $\geq 100$  |                       |     |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ECLASS 9.0  | 27-06-03-08 | ECLASS 9.1  | 27-06-03-08 |
| ECLASS 10.0 | 27-06-03-08 | ECLASS 11.0 | 27-06-03-08 |

**Approvals**

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

|                  |                              |
|------------------|------------------------------|
| Engineering Data | <a href="#">EPLAN, WSCAD</a> |
|------------------|------------------------------|

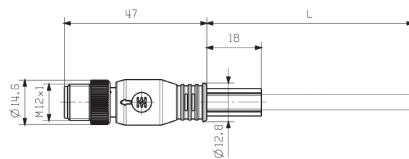
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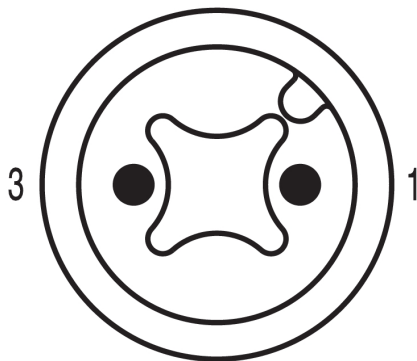
## Drawings

### Dimensioned drawing



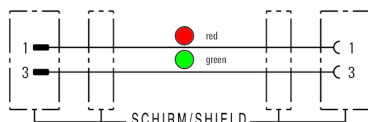
Male, straight

### Pole scheme

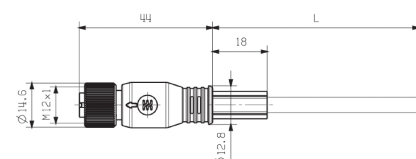


Pin

### Wiring diagram

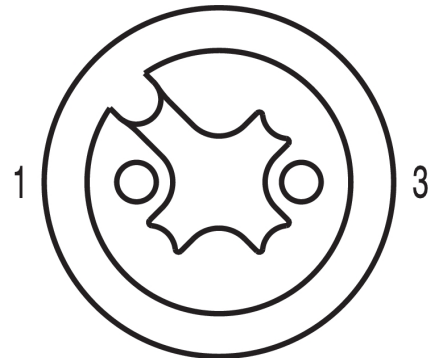


### Dimensioned drawing



Straight socket

### Pole scheme



Socket

### The ideal tool: Screwty® with torque function



Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 1920000000 Adapters: M12, M12 F, M8, M8 F