

**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).                                                                                                                                                    |

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## Technical data

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 191 g |
|------------|-------|

## 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                | Hybrid cable                     | No                 |
| Insulation                    | PE                 | Irradiation crosslinked          | No                 |
| Number of poles               | 2                  | Outside diameter                 | 8 mm ± 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, stationary | -30...80 °C        | Welding spark resistance         | No                 |

## General technical data

|                        |                                  |                              |                   |
|------------------------|----------------------------------|------------------------------|-------------------|
| Coding                 | A-coded                          | Connection thread            | M12 / M12         |
| Contact material       | Ni/Au                            | 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 |
|---------------------|-------------------|---------------|-------|

## Plug, left

|           |                                                               |
|-----------|---------------------------------------------------------------|
| Plug left | M12, A-coded, IP67, male contact, straight, Plastic, shielded |
|-----------|---------------------------------------------------------------|

## Plug, right

|            |                                                                 |
|------------|-----------------------------------------------------------------|
| Plug right | M12, A-coded, IP67, female contact, straight, Plastic, shielded |
|------------|-----------------------------------------------------------------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | 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 | ECLASS 12.0 | 27-06-03-08 |
| ECLASS 13.0 | 27-06-03-08 | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

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|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| RoHS Compliance Status               | Compliant with exemption                      |
| RoHS Exemption (if applicable/known) | 6c                                            |
| REACH SVHC                           | Lead 7439-92-1 Imidazolidine-2-thione 96-45-7 |
| SCIP                                 | be1e0a9b-b31e-4729-85aa-0ec2ffffea4           |

**Approvals**

Approvals



|                 |                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> |
| ROHS            | Conform                                                                                                                                                                     |

**Downloads**

|            |                                          |
|------------|------------------------------------------|
| Catalogues | <a href="#">Catalogues in PDF-format</a> |
| Brochures  | <a href="#">FL FIELDWIRING EN</a>        |

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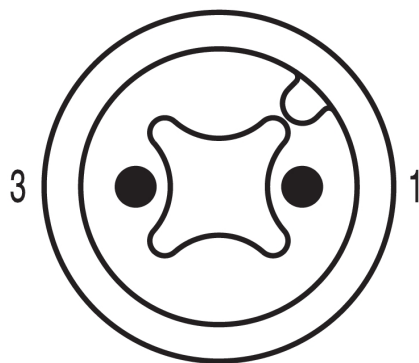
## Drawings

### Dimensioned drawing



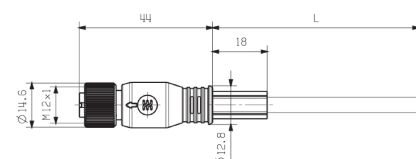
Male, straight

### Pole scheme



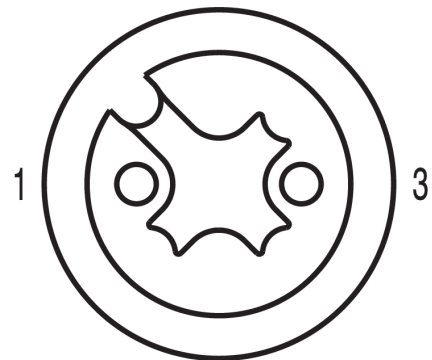
Pin

### Wiring diagram



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