

**Industrial Ethernet  
IE-FM5D2UE0100MSD0SD0X**

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Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5, 6 and 14
- Cat. 6 throughout<sub>A</sub> with **STEADYTEC**® technology
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

**General ordering data**

|            |   |
|------------|---|
| Type       | IE-FM5D2UE0100MSD0SD0X  |
| Order No.  | <a href="#">8876431000</a>  |
| Version    | Dragline cable, SC duplex IP 20, SC duplex IP 20, 50 µm, PUR, 100 m |
| GTIN (EAN) | 4032248799022   |
| Qty.       | 1 pc(s).  |

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### Technical data

#### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Length     | 100 m   | Length (inches) | 3.937 inch |
| Net weight | 6,560 g |                 |            |

#### Temperatures

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 80 °C          | Operating temperature, min. | -40 °C         |
| Storage temperature, max.   | 80 °C          | Storage temperature, min.   | -40 °C         |
| Operating temperature       | -40 °C...80 °C | Storage temperature         | -40 °C...80 °C |
| Installation temperature    | -20 °C...60 °C |                             |                |

#### Standards

|                    |             |
|--------------------|-------------|
| Connector standard | IEC 61754-4 |
|--------------------|-------------|

#### Fibre-optic

|                           |   |                |  |
|---------------------------|---|----------------|--|
| Attenuation               | 2.3 dB/km at 850 nm, &le;<br>0.5 dB/km at 1300 nm | Bandwidth      | 500 MHz*km at 850 nm,<br>500 MHz*km at 1300 nm |
| Fibre type                | GOF, Multimode, OM2                               | Insertion loss | ≤ 0.4 dB                                       |
| Return loss (attenuation) | ≥ 30 dB   |                |  |

#### Cable structure

|                  |                    |                 |      |
|------------------|--------------------|-----------------|------|
| Core diameter    | 50 µm              | Sheath diameter | 6 mm |
| Cable layout     | Break-out dragline | Material sheath | PUR  |
| Sheathing colour | black              |                 |      |

#### Mechanical and material properties of cable

|                                 |         |                                |       |
|---------------------------------|---------|--------------------------------|-------|
| Bending cycles                  | 100,000 | Min. bending radius, once only | 25 mm |
| Min. bending radius, repetitive | 77 mm   |                                |       |

#### plug

|                |                 |                 |                 |
|----------------|-----------------|-----------------|-----------------|
| Connector left | SC duplex IP 20 | Connector right | SC duplex IP 20 |
|----------------|-----------------|-----------------|-----------------|

#### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000034    | ETIM 4.0   | EC000034    |
| ETIM 5.0   | EC000034    | ETIM 6.0   | EC002607    |
| eClass 5.1 | 27-06-18-03 | eClass 6.2 | 27-08-10-03 |
| eClass 7.1 | 27-08-10-03 | eClass 8.1 | 27-08-10-03 |
| eClass 9.0 | 27-06-10-03 | eClass 9.1 | 27-06-10-03 |

#### Approvals

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

#### Downloads

|                    |  |
|--------------------|--|
| Brochure/Catalogue | <a href="#">CAT 9 IETH 15/16 EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| User Documentation | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>   |

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