# FC50 PN/26A S1 B BX

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image



**OMNIMATE® - Board-to-Board connectors**
Flexible engineering of compact devices
The use of future-proof contact systems, as well as the optimisation of manufacturing processes, are increasingly important in the development of efficient industrial devices, especially in the field of Industry 4.0.
OMNIMATE® board-to-board connectors feature a 1.27 mm pitch and offer maximum flexibility due to different designs.

- **Flexible device design** - Industrial suitable density combined with high flexible connection combinations (Mezzanine, Mother-to-Daughter, Extender-card, Cable-to-Board)
- **Automation-Ready** - Developed for automatic assembly with high precise pin coplanarity and SMT-fixation
- **Reliable contact** - Up to 500 mating cycles due to industry suitable gold-surface (PdNi-Au)
- **Process-Ready** - High performance LCP material for reflow soldering
- **Scalability** - Different heights with high contact overlapping ensure various solutions from 12 – 80 poles.
- **Robust miniaturisation** - simple and safe connection even possible under unfavorable mating conditions – e.g. inclination or offset.

### General ordering data

| | |
|---|---|
| Version | PCB plug-in connector, female plug, Pitch in mm (P): 1.27 mm, Number of poles: 26, Box |
| Order No. | 2827080000 |
| Type | FC50 PN/26A S1 B BX |
| GTIN (EAN) | 4064675363682 |
| Qty. | 10 pc(s). |
| Product data | IEC: / 1.9 A<br>UL: |
| Packaging | Box |

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## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Length | 12.2 mm | Length (inches) | 0.48 inch |
| Net weight | 14.7 g | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | LCP | Colour | grey |
| Colour chart (similar) | RAL 7035 | Insulation strength | ≥ 20 MΩ |
| Moisture Level (MSL) | 1 | UL 94 flammability rating | V-0 |
| Contact base material | Cu-alloy | Contact material | Gold over nickel |
| Contact surface | Ni/Au | Layer structure of plug contact | ≥ 2 µm Ni / ≥ 0.4 µm PdNi / ≥ 0.05 µm Au |
| Storage temperature, min. | -40 °C | Storage temperature, max. | 70 °C |
| Operating temperature, min. | -20 °C | Operating temperature, max. | 105 °C |

### Conductors suitable for connection

| | | | |
|---|---|---|---|
| Wire connection cross section AWG, min. | AWG 30/7 | Wire connection cross section AWG, max. | AWG 30/7 |

### Rated data acc. to IEC

| | | | |
|---|---|---|---|
| Rated current, min. number of poles (Tu=20°C) | 1.9 A | Rated current, max. number of poles (Tu=40°C) | 1.65 A |
| Clearance, min. | 0.4 mm | Creepage distance, min. | 0.4 mm |

### Packing

| | | | |
|---|---|---|---|
| Packaging | Box | VPE length | 145 mm |
| VPE width | 102 mm | VPE height | 30 mm |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC002599 | ETIM 7.0 | EC002599 |
| ETIM 8.0 | EC002599 | ETIM 9.0 | 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 | 27060308 |

### Important note

| | |
|---|---|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |

### Approvals

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

### Downloads

| | |
|---|---|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

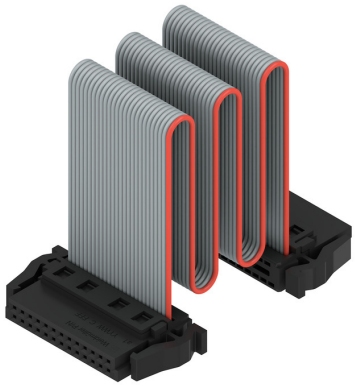
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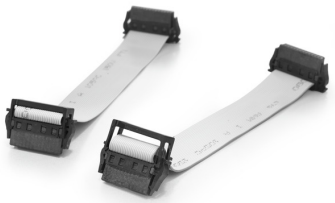
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## Drawings

### Product image





With optional strain relief

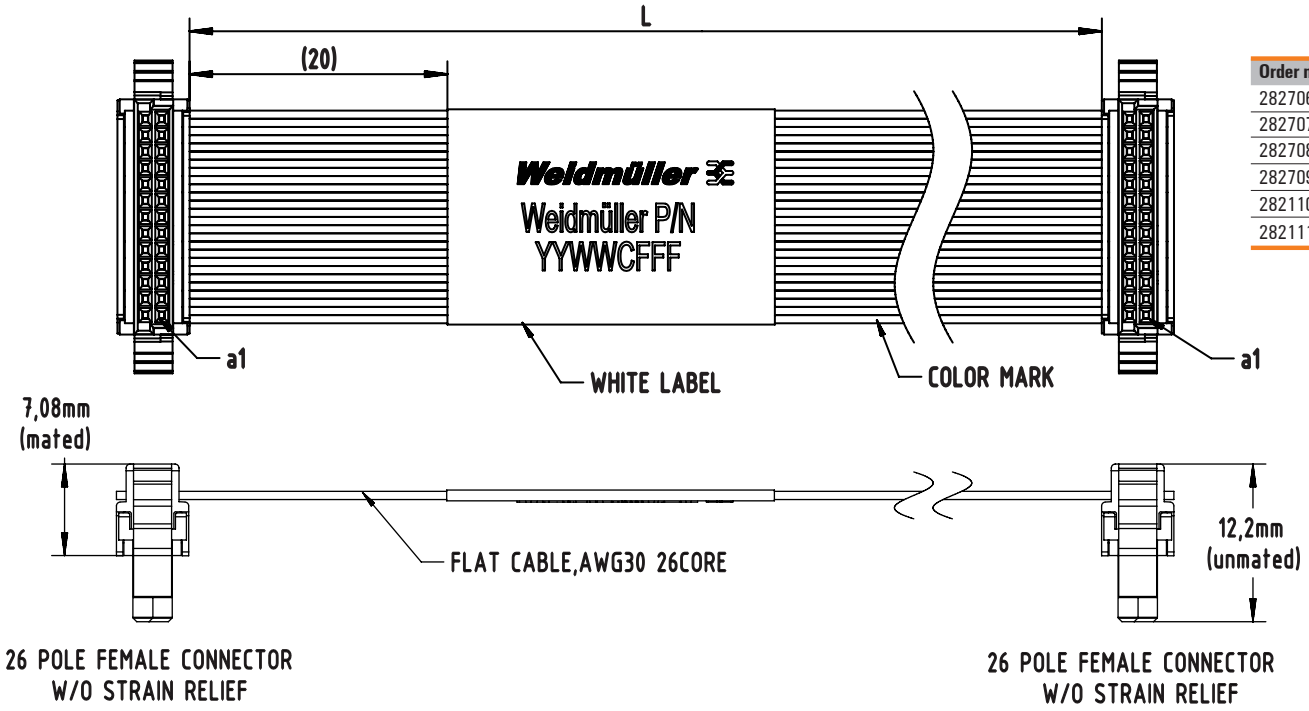


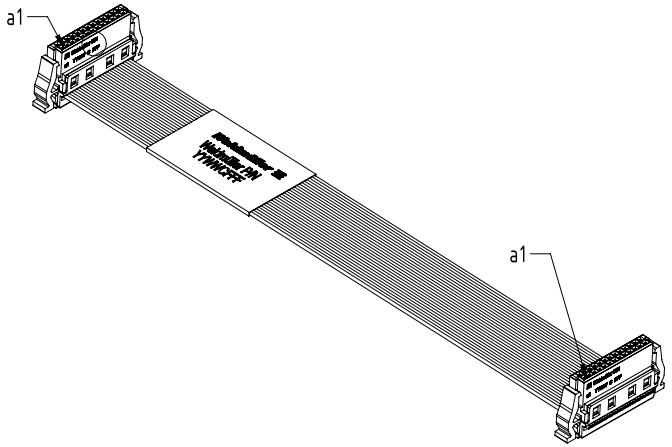


Three standard lengths (0.1 m, 0.2 m, and 0.5 m)

# FC.. ../26A S1 B BX

## 1:1 wiring, 26 pole, different lengths and cable types




| Order no. | Type | No. of poles | Cable Type | Cable Length |
|---|---|---|---|---|
| 2827060000 | FC10 PN/26A S1 B BX | 26 | PVC | 100±5mm |
| 2827070000 | FC20 PN/26A S1 B BX | 26 | PVC | 200±10mm |
| 2827080000 | FC50 PN/26A S1 B BX | 26 | PVC | 500±10mm |
| 2827090000 | FC10 TN/26A S1 B BX | 26 | TPE | 100±5mm |
| 2821100000 | FC20 TN/26A S1 B BX | 26 | TPE | 200±10mm |
| 2821110000 | FC50 TN/26A S1 B BX | 26 | TPE | 500±10mm |