FC10 PN/40A S1 B BX

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

www.weidmueller.com

Product image



RoHS COMPLIANT

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: 40, Box
Order No.	2827180000
Type	FC10 PN/40A S1 B BX
GTIN (EAN)	4064675363781
Qty.	10 pc(s).
Product data	IEC: / 1.9 A UL:
Packaging	Box

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Technical data

Dimensions and weights

Length	12.2 mm	Length (inches)	0.48 inch
Net weight	8 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	161 mm
VPE width	85 mm	VPE height	53 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

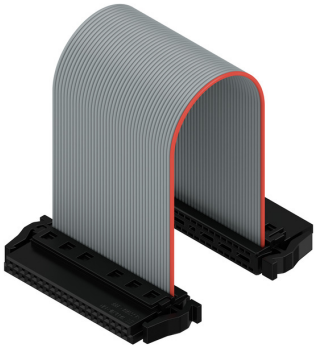
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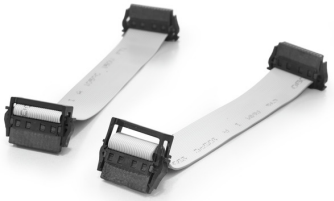
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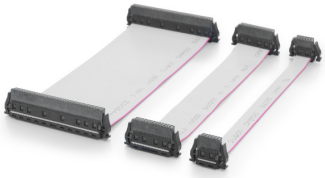
Drawings

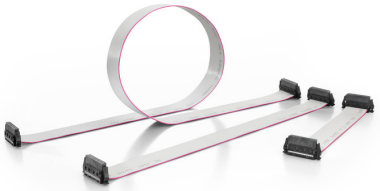
Product image





With optional strain relief

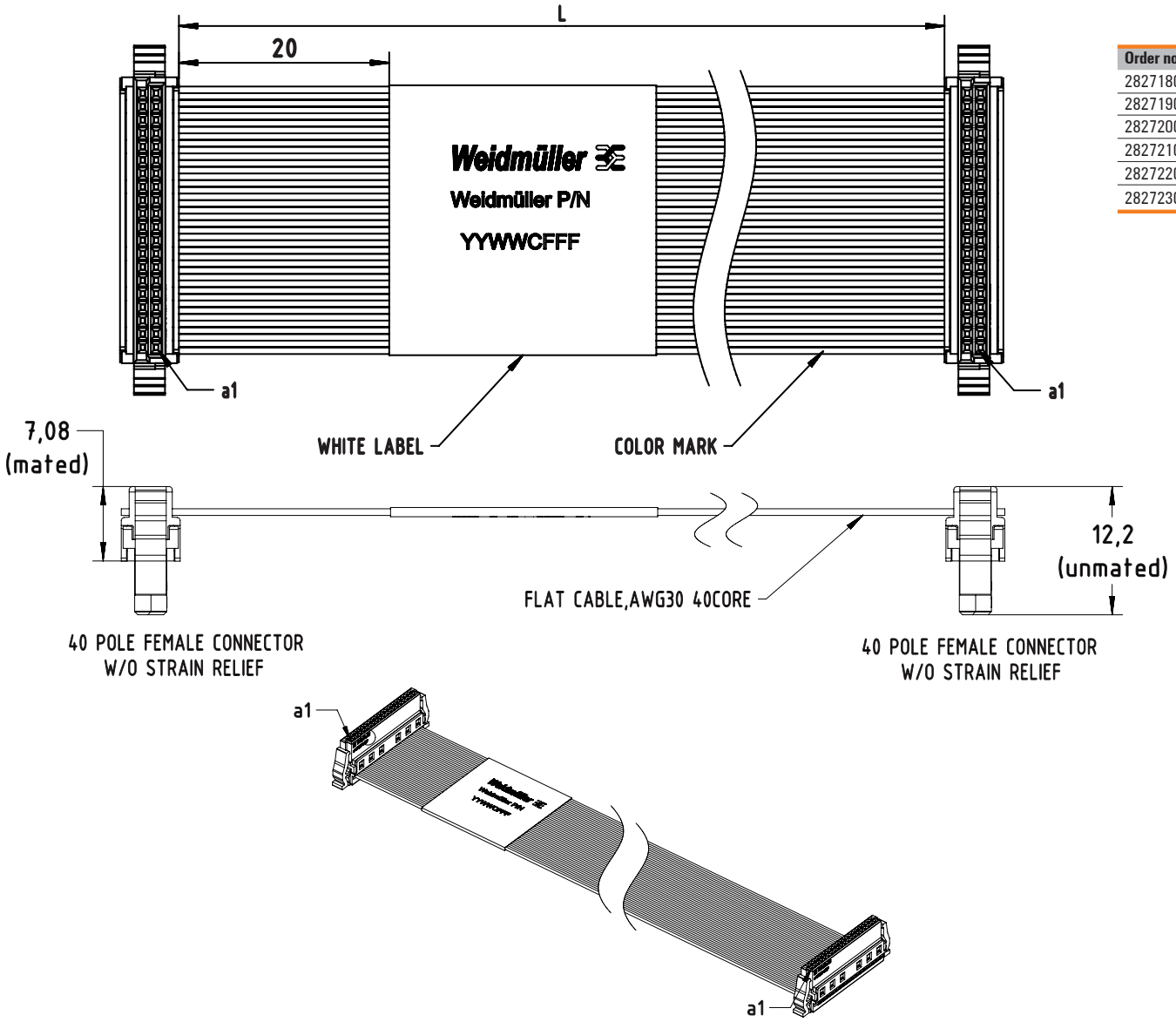




Three standard lengths (0.1 m, 0.2 m, and 0.5 m)

FC.. ../40A S1 B BX

1:1 wiring, 40 pole, different lengths and cable types



Order no.	Type	No. of poles	Cable Type	Cable Length
2827180000	FC10 PN/40A S1 B BX	40	PVC	100±5mm
2827190000	FC20 PN/40A S1 B BX	40	PVC	200±10mm
2827200000	FC50 PN/40A S1 B BX	40	PVC	500±10mm
2827210000	FC10 TN/40A S1 B BX	40	TPE	100±5mm
2827220000	FC20 TN/40A S1 B BX	40	TPE	200±10mm
2827230000	FC50 TN/40A S1 B BX	40	TPE	500±10mm