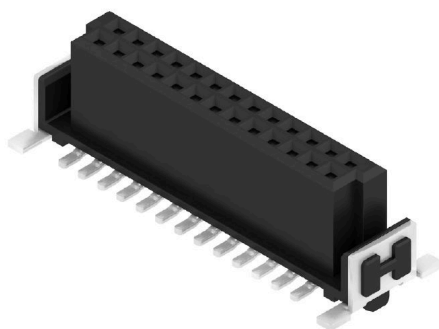


FFH6 S1/26V F1 B RL
Weidmüller Interface GmbH & Co. KG

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.

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- 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 header, SMD solder connection, Pitch in mm (P): 1.27 mm, Number of poles: 26, 180°, Tape
Order No.	2747280000
Type	FFH6 S1/26V F1 B RL
GTIN (EAN)	4064675000921
Qty.	280 items
Product data	IEC: / 2.8 A UL: 150 V
Packaging	Tape

FFH6 S1/26V F1 B RL

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E92202

Dimensions and weights

Depth	7.8 mm	Depth (inches)	0.3071 inch
Height	7.1 mm	Height (inches)	0.2795 inch
Width	21.59 mm	Width (inches)	0.85 inch
Net weight	2.58 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System specifications

Transmission rate	3.125 Gbit/s	Product family	OMNIMATE Signal - Board-to-Board
Type of connection	Board connection	Mounting onto the PCB	SMD solder connection
Pitch in mm (P)	1.27 mm	Pitch in inches (P)	0.050 "
Outgoing elbow	180°	Number of poles	26
Number of solder pins per pole	1	Coplanarity:	0.1 mm
Number of rows	1	Pin series quantity	2
Protection degree	IP20	Volume resistance	<25 mΩ
Plugging cycles	500	Plugging force/pole, max.	0.6 N
Pulling force/pole, max.	0.6 N		

Material data

Insulating material	LCP	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Insulation resistance	≥ 10 ¹⁰ Ω	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact base material	Copper alloy
Contact material	Cu-alloy	Contact surface	Gold over nickel
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.	-55 °C
Operating temperature, max.	125 °C		

Rated data acc. to IEC

Rated current, min. number of poles (Tu=20°C)	2.8 A	Creepage distance, min.	0.4 mm
Clearance, min.	0.4 mm		

Rated data acc. to UL 1977

Reference to approval values	Specifications are maximum values, details - see approval certificate.	Rated voltage (UL 1977) (obsolete)	150 V
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Technical data

Packing

Packaging	Tape	VPE length	359.00 mm
VPE width	352.00 mm	VPE height	152.00 mm

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.
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Notes

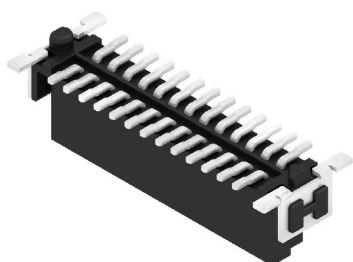
Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

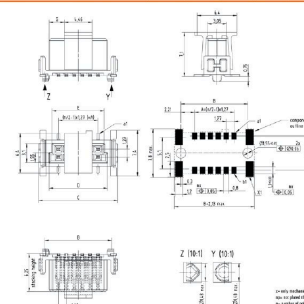
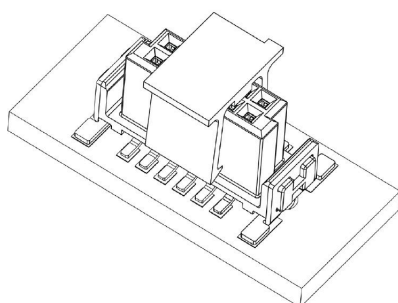
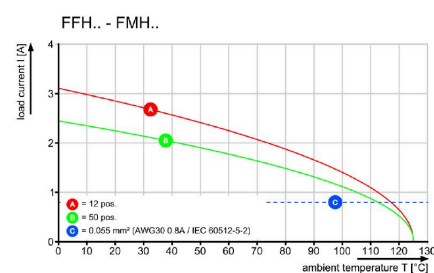
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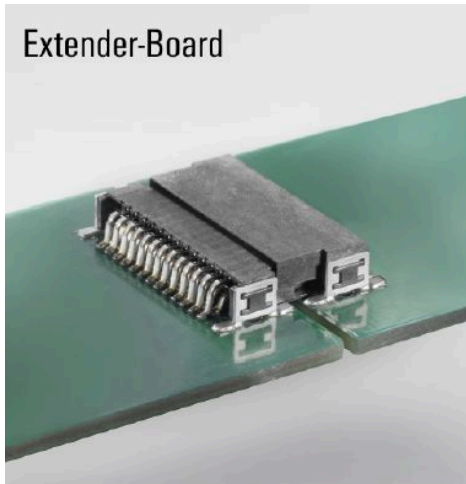
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Drawings
Product image

Dimensional drawing

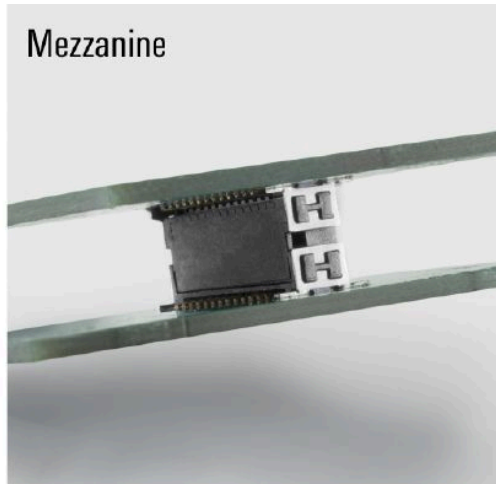
Type	Order no.	No. of poles	A	B	C	D	E	G
FFH6 S1/12V F1 B RL	2147120000	12	6,35	19,77	12,7	9,37	15,37	2,40
FFH6 S1/16V F1 B RL	2147160000	16	8,89	13,31	15,24	11,93	19,93	3,75
FFH6 S1/20V F1 B RL	2147170000	20	11,43	16,85	17,78	14,46	13,46	5
FFH6 S1/25V F1 B RL	2147180000	25	15,24	19,89	21,16	15,25	17,56	5,54
FFH6 S1/32V F1 B RL	2147190000	32	18,5	23,47	25,4	22,07	21,07	8,81
FFH6 S1/40V F1 B RL	2147200000	40	25,12	26,26	30,48	27,15	26,15	11,25
FFH6 S1/50V F1 B RL	2147210000	50	30,48	36,29	36,19	35,5	35,5	15,75
FFH6 S1/60V F1 B RL	2147220000	60	41,91	46,33	48,76	46,93	45,10	20,24
FFH6 S1/80V F1 B RL	2147230000	80	50,81	53,36	56,16	52,66	51,16	24,13


Detailed drawing

Derating curve


Extender-Board



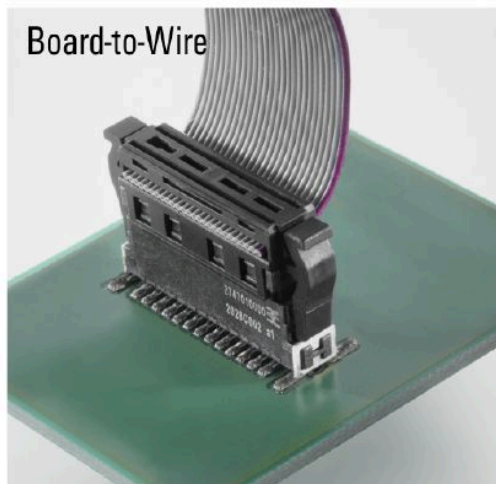
Mezzanine

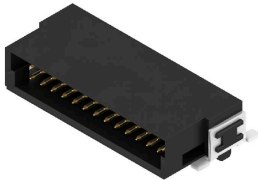


Mother-to-Daughter



Board-to-Wire



FFH6 S1/26V F1 B RL**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
D-32758 Detmold
Germanywww.weidmueller.com**Counterpart****FMH - Male header, Board connection****OMNIMATE® - Board-to-Board connectors**

Flexible engineering of compact devices

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General ordering data

Type	FMH S1/26H F1 B RL	Version
Order No.	2747190000	PCB plug-in connector, male header, SMD solder connection, Pitch in
GTIN (EAN)	4064675000976	mm (P): 1.27 mm, Number of poles: 26, 90°, Tape
Qty.	560 ST	

FFH6 S1/26V F1 B RL

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

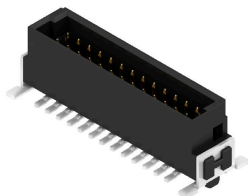
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Counterpart

FMH1 - Male header, Board connection (stack height 1.75 mm)



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General ordering data

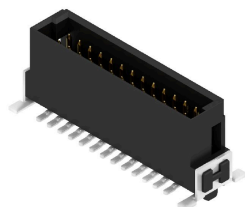
Type	FMH1 S1/26V F1 B RL	Version
Order No.	2747010000	PCB plug-in connector, male header, SMD solder connection, Pitch in
GTIN (EAN)	4064675001225	mm (P): 1.27 mm, Number of poles: 26, 180°, Tape
Qty.	280 ST	

FFH6 S1/26V F1 B RL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

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www.weidmueller.com**Counterpart****FMH3 - Male header, Board connection (stack height 3.25 mm)****OMNIMATE® - Board-to-Board connectors**

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General ordering data

Type	FMH3 S1/26V F1 B RL	Version
Order No.	2747100000	PCB plug-in connector, male header, SMD solder connection, Pitch in
GTIN (EAN)	4064675001218	mm (P): 1.27 mm, Number of poles: 26, 180°, Tape
Qty.	280 ST	