

FFH9 S1/12V F1 B RL

Weidmüller Interface GmbH & Co. KG

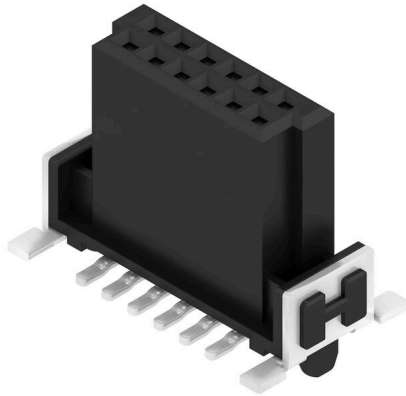
Klingenbergstraße 26

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.

- 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 industrial 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 header, SMD solder connection, Pitch in mm (P): 1.27 mm, Number of poles: 12, 180°, Tape
Order No.	2747340000
Type	FFH9 S1/12V F1 B RL
GTIN (EAN)	4064675001003
Qty.	280 items
Product data	IEC: / 2.8 A UL: 150 V
Packaging	Tape

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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	9.9 mm	Height (inches)	0.3898 inch
Width	12.7 mm	Width (inches)	0.5 inch
Net weight	5.33 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	12
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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Packing

Packaging	Tape	VPE length	350.00 mm
VPE width	340.00 mm	VPE height	135.00 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.

Notes

Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

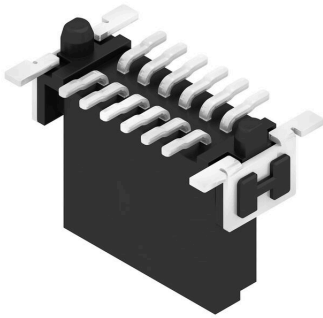
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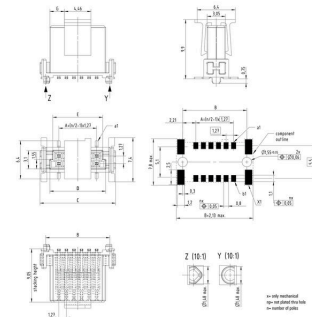
Drawings

Product image



Dimensional drawing

Type	Order no.	No. of poles	A	B	C	D	E	G
FFH9 S1/12V F1 B RL	2347140000	12	45.26	102.11	112.2	102.2	102.2	2.48
FFH9 S1/12V F1 B RL	2347260000	18	6.89	112.1	112.1	112.1	102.1	3.73
FFH9 S1/12V F1 B RL	2347380000	24	11.43	118.6	117.9	114.4	114.4	5
FFH9 S1/12V F1 B RL	2347500000	28	15.24	118.6	115.9	115.9	117.2	7.64
FFH9 S1/12V F1 B RL	2347620000	31	18.8	124.4	124	121.1	115.1	8.81
FFH9 S1/12V F1 B RL	2347740000	40	24.13	124.4	124.4	121.1	115.1	11.31
FFH9 S1/12V F1 B RL	2347860000	50	30.48	124.2	124.2	121	115	14.78
FFH9 S1/12V F1 B RL	2347980000	58	41.91	141.51	141.51	141.51	141.51	20.74
FFH9 S1/12V F1 B RL	2347420000	60	48.26	153.8	153.8	153.8	153.8	24.91



Detailed drawing



Derating curve



