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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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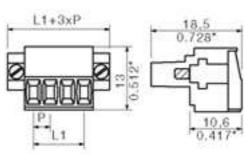
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China













Order No. 1615880000
Part designation BL 3.5/12F SN SW
Version PCB plug-in connector, Female connectors,

Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 12, 180°,

Box

EAN 4008190063924

Qty. 50 pc(s).

System parameters

Conductor connection system Clamping yoke connection 180° Outgoing direction of conductor Pitch 3.5 mm 0.138 inch Pitch in inch No. of poles 12 No. of rows Screwdriver blade  $0.4 \times 2.5$ Screwdriver blade standard **DIN 5264** Tightening torque, min. 0.2 0.25 Nm Tightening torque, max. Clamping screw M 2 Stripping length 6 mm L1 in mm 38.5 mm

Electric shock protection to DIN VDE 0470 IP 20
Electric shock protection to DIN VDE 0470 Safe from finger touch

Material data

L1 in inch

Insulating material PBT Colour black

colour chart Similar to RAL 9011

Insulating material group IIIa
Flammability class UL 94 V-0
CTI >= 200



1.516 inch

Material data	
Contact base material	Copper alloy
Contact surface	tinned
Contact Surface	united
Connectable conductors	
Clamping range, min.	0.08 mm²
Clamping range, max.	1.5 mm²
AWG, min.	14
AWG, max.	28
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm²
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, min.	0.2 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, max.	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm <sup>2</sup>
Gauge to EN 60999 a x b; Ø	2.4 mm x 1.5 mm;
222g2 to 2.1 00000 a x 0, p	
DIN IEC rating data	
Rated current, min. No. pins (Tu=20°C)	17 A
Rated current, max. No. pins (Tu=20°C)	12 A
Rated current, min. No. pins(Tu=40°C)	14.5 A
Rated current, max. No. pins (Tu=40°C)	10 A
Rated voltage for overvoltage class/pollution	320 V
severity II/2	
Rated voltage for overvoltage class/pollution	160 V
severity III/2	
Rated voltage for overvoltage class/pollution	160 V
severity III/3	
Rated impulse withstand voltage for overvoltage	2.5 kV
class/pollution severity II/2	
Rated impulse withstand voltage for overvoltage	2.5 kV
class/pollution severity III/2	
Rated impulse withstand voltage for overvoltage	2.5 kV
class/pollution severity III/3	
Short-time withstand current resistance	3 x 1s with 100 A
000 4	
CSA rating data	200 \/
Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A 28
AWG conductor (field wiring), min.	14
AWG conductor (field wiring), max.	14
UL 1059 rating data	
Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor, min.	28
AWG conductor, max.	14



## **Approvals**

## Approvals institutes



Classifications	
ETIM 2.0	NK
ETIM 3.0	EC001284
eClass 4.1	27-26-07-01
eClass 5.0	27-26-07-01
eClass 5.1	27-26-07-04

## Similar products

Order No.	Part designation	Version Clausian Character Clausian and Company
1606640000	BL 3.5/2F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 2, 180°, Box
1615780000	BL 3.5/2F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 2, 180°, Box
1606650000	BL 3.5/3F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 3, 180°, Box
1615790000	BL 3.5/3F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 3, 180°, Box
1606660000	BL 3.5/4F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1615800000	BL 3.5/4F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1606670000	BL 3.5/5F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 5, 180°, Box
1615810000	BL 3.5/5F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 5, 180°, Box
1606680000	BL 3.5/6F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1615820000	BL 3.5/6F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1606690000	BL 3.5/7F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 7, 180°, Box



1615830000	BL 3.5/7F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 7, 180°, Box
1606700000	BL 3.5/8F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1615840000	BL 3.5/8F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1606710000	BL 3.5/9F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 9, 180°, Box
1615850000	BL 3.5/9F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 9, 180°, Box
1606720000	BL 3.5/10F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1615860000	BL 3.5/10F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1606730000	BL 3.5/11F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 11, 180°, Box
1615870000	BL 3.5/11F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 11, 180°, Box
1606740000	BL 3.5/12F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1606750000	BL 3.5/13F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 13, 180°, Box
1615890000	BL 3.5/13F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 13, 180°, Box
1606760000	BL 3.5/14F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 14, 180°, Box
1615900000	BL 3.5/14F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 14, 180°, Box
1606770000	BL 3.5/15F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 15, 180°, Box
1615910000	BL 3.5/15F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 15, 180°, Box
1606780000	BL 3.5/16F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 16, 180°, Box



1615920000	BL 3.5/16F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of
		poles: 16, 180°, Box
1620760000	BL 3.5/17F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 17, 180°, Box
1620840000	BL 3.5/17F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 17, 180°, Box
1620770000	BL 3.5/18F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 18, 180°, Box
1620850000	BL 3.5/18F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 18, 180°, Box
1620780000	BL 3.5/19F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 19, 180°, Box
1620860000	BL 3.5/19F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 19, 180°, Box
1620790000	BL 3.5/20F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 20, 180°, Box
1620870000	BL 3.5/20F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 20, 180°, Box
1620800000	BL 3.5/21F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 21, 180°, Box
1620880000	BL 3.5/21F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 21, 180°, Box
1620810000	BL 3.5/22F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 22, 180°, Box
1620890000	BL 3.5/22F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 22, 180°, Box
1620820000	BL 3.5/23F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 23, 180°, Box
1620900000	BL 3.5/23F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 23, 180°, Box
1620830000	BL 3.5/24F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 24, 180°, Box
1620910000	BL 3.5/24F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 24, 180°, Box

