# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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.

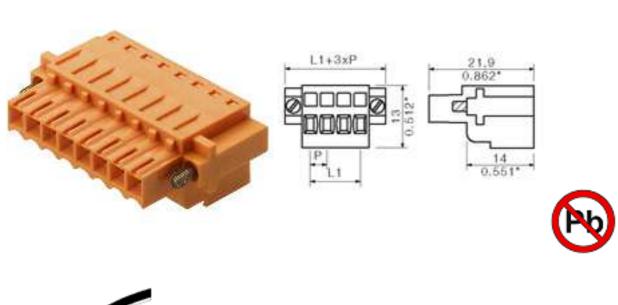
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







#### General ordering data

Order No. Part designation Version

# EAN Qty.

# **System parameters**

Conductor connection system Outgoing direction of conductor Pitch Pitch in inch No. of poles No. of rows Screwdriver blade Screwdriver blade standard Stripping length L1 in mm L1 in inch Electric shock protection to DIN VDE 0470 Electric shock protection to DIN VDE 0470 1690990000 BLZF 3.5/13/F SN OR PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm<sup>2</sup>, Pitch: 3.50 mm, No. of poles: 13, 180°, Box 4008190329501 50 pc(s).

Tension clamp connection 180° 3.5 mm 0.138 inch 13 1 0.4 x 2.5 DIN 5264-A 10 mm 42 mm 1.654 inch IP 20 Safe from finger touch



#### System parameters

Material data	
Insulating material	PBT
Colour	orange
colour chart	Similar to RAL 2000
Insulating material group	Illa
Flammability class UL 94	V-0
CTI	>= 200
Contact base material	Copper alloy
Contact surface	tinned
Connectable conductors	0.12 mm <sup>2</sup>
Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>
AWG, min.	28
AWG, max.	16
Outer diameter of insulation, max.	2.9 mm
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 mm <sup>2</sup>
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 mm <sup>2</sup>
Gauge to EN 60999 a x b; ø	2.4 mm x 1.5 mm;
DIN IEC rating data	
Rated current, min. No. pins (Tu=20°C)	14.5 A
Rated current, max. No. pins (Tu=20°C)	10 A
Rated current, min. No. pins(Tu=40°C)	12 A
Rated current, max. No. pins (Tu=40°C)	8 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
CSA rating data	200.1/
Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	26
AWG conductor (field wiring), max.	14

Weidmüller 🗲

#### CSA rating data

UL 1059 rating data	
Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor, min.	26
AWG conductor, max.	14

### Approvals

# Approvals institutes



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

1690880000	BLZF 3.5/2/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Box
1691110000	BLZF 3.5/2/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Box
1690890000	BLZF 3.5/3/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Box
1691120000	BLZF 3.5/3/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Box
1690900000	BLZF 3.5/4/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1691130000	BLZF 3.5/4/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1690910000	BLZF 3.5/5/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Box
1691140000	BLZF 3.5/5/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Box



Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 3.50 mm (0.138 inch) | Socket connectors, tension clamp connection, pitch 3.5 | BLZF 3.5 | BLZF 3.5/180F

1690920000	BLZF 3.5/6/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1691150000	BLZF 3.5/6/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1690930000	BLZF 3.5/7/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Box
1691160000	BLZF 3.5/7/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Box
1690940000	BLZF 3.5/8/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1691170000	BLZF 3.5/8/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1690950000	BLZF 3.5/9/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Box
1691180000	BLZF 3.5/9/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Box
1690960000	BLZF 3.5/10/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1691190000	BLZF 3.5/10/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1690970000	BLZF 3.5/11/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Box
1691200000	BLZF 3.5/11/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Box
1690980000	BLZF 3.5/12/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1691210000	BLZF 3.5/12/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1691220000	BLZF 3.5/13/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 180°, Box
1691000000	BLZF 3.5/14/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Box
1691230000	BLZF 3.5/14/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Box



Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 3.50 mm (0.138 inch) | Socket connectors, tension clamp connection, pitch 3.5 | BLZF 3.5 | BLZF 3.5/180F

	1691010000	BLZF 3.5/15/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 180°, Box
	1691240000	BLZF 3.5/15/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 180°, Box
	1691020000	BLZF 3.5/16/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Box
	1691250000	BLZF 3.5/16/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Box
	1691030000	BLZF 3.5/17/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 180°, Box
	1691260000	BLZF 3.5/17/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 180°, Box
	1691040000	BLZF 3.5/18/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Box
	1691270000	BLZF 3.5/18/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Box
	1691050000	BLZF 3.5/19/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 180°, Box
	1691280000	BLZF 3.5/19/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 180°, Box
	1691060000	BLZF 3.5/20/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Box
	1691290000	BLZF 3.5/20/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Box
	1691070000	BLZF 3.5/21/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 180°, Box
	1691300000	BLZF 3.5/21/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 180°, Box
	1691080000	BLZF 3.5/22/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Box
	1691310000	BLZF 3.5/22/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Box
	1691090000	BLZF 3.5/23/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 180°, Box



1691320000	BLZF 3.5/23/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 23, 180°, Box
1691100000	BLZF 3.5/24/F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Box
1691330000	BLZF 3.5/24/F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Box

