	Image: state
General ordering data	
Order No.	1639430000
Part designation	BL 3.5/21/90F SN SW
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 90°, Box
EAN	4008190276973
Qty.	20 pc(s).
System parameters Conductor connection system Outgoing direction of conductor Pitch Pitch in inch No. of poles No. of rows Screwdriver blade Screwdriver blade standard Tightening torque, min. Tightening torque, max. Clamping screw Stripping length L1 in mm L1 in inch Electric shock protection to DIN VDE 0470 Electric shock protection to DIN VDE 0470	Clamping yoke connection     90°     3.5 mm     0.138 inch     21     1     0.4 x 2.5     DIN 5264     0.2     0.25 Nm     M 2     6 mm     70 mm     2.756 inch     IP 20     Safe from finger touch
Material data Insulating material Colour colour chart Insulating material group Flammability class UL 94	PBT black Similar to RAL 9011 IIIa V-0
CTI	>= 200



InstructionContact surfaceCopper alloyContact surfacetinnedContact surfacetinnedContact surface0.8 mm²Clamping range, min.0.08 mm²Clamping range, max.1.5 mm²AWG, min.14AWG, max.28Solid, max. H05(07) V-U0.2 mm²Solid, max. H05(07) V-U0.2 mm²Flexible, min. H05(07) V-U0.2 mm²With wire end ferrule, acc. to DIN 46 228 /t, min.0.2 mm²With wire end ferrule, acc. to DIN 46 228 /t, max. 1.5 mm²With wire end ferrule, acc. to DIN 46 228 /t, max. 1.5 mm²Gauge to EN 60999 a x b; ø2.4 mm x 1.5 mm²Gauge to EN 60999 a x b; ø2.4 mm x 1.5 mm²Rated current, min. No. pins (Tu=20°C)10 ARated voltage for overvoltage class/pollution320 Vseverity III/2160 VRated voltage for overvoltage class/pollution2.5 kVRated voltage for overvoltage class/pollution2.5 kVRated impulse withstand voltage for overvoltage2.5 kVRated voltage (Use group D)300 VRated voltage (Use group D)300 VRated voltage (Use group D)300	Meterial data	
Contact surfacetimedClamping range, min.0.08 mm²Clamping range, max.1.5 mm²AWG, max.28Solid, min. H05(07) V-U0.2 mm²Solid, max. H05(07) V-U0.2 mm²Flexible, max. H05(07) V-K0.2 mm²Flexible, max. H05(07) V-K0.2 mm²Solid, max. H05(07) V-K0.2 mm²Solid, max. H05(07) V-K0.2 mm²Solid, max. H05(07) V-K0.2 mm²With wire end ferrule, acc. to DIN 46 228 /1, max.1.5 mm²With wire end ferrule, acc. to DIN 46 228 /1, max.1.5 mm²With wire end ferrule, acc. to DIN 46 228 /1, max.1.5 mm²Gauge to EN 60999 a x b; a2.4 mm x 1.5 mm²Gauge to EN 60999 a x b; a2.4 mm x 1.5 mm²Gauge to EN 60999 a x b; a2.4 mm x 1.5 mm²Gauge to EN 60999 a x b; a2.4 mm x 1.5 mm²Rated current, min. No, pins (Tu=20°C)10 ARated current, min. No, pins (Tu=20°C)10 ARated current, max. No, pins (Tu=20°C)10 ARated current, max. No, pins (Tu=20°C)10 ARated voltage for overvoltage class/pollution20 Vseverity II/22.5 kVRated voltage for overvoltage class/pollution2.5 kVclass/pollution severity II/22.5 kVRated impulse withstand voltage for overvoltage2.5 kVclass/pollution severity II/22.5 kVRated impulse withstand voltage for overvoltage2.5 kVclass/pollution severity II/22.5 kVRated voltage (Use group D)300 VRated voltage (Use gro	Material data	Connectellar
Clamping range, min.     0.08 mm²       Clamping range, max.     1.5 mm²       AWG, min.     14       AWG, max.     28       Solid, max. H05(07) V-U     0.2 mm²       Flexible, min. H05(07) V-K     0.2 mm²       With wire end ferrule, acc. to DIN 46 228 /1, max. 1.5 mm²       With wire end ferrule, acc. to DIN 46 228 /1, max. 1.5 mm²       With wire end ferrule, acc. to DIN 46 228 /1, max. 1.5 mm²       w, plastic collar ferrule, DIN 46228 pt 4, max.     1.5 mm²       Gauge to EN 60999 a x b; ø     2.4 mm x 1.5 mm;       DIN IEC rating data     12 A       Rated current, min. No, pins (Tu=20°C)     10 A       Rated current, min. No, pins (Tu=40°C)     10 A       Rated voltage for overvoltage class/pollution     320 V       severity II/2     160 V       Rated voltage for overvoltage class/pollution     160 V       severity III/2     2.5 kV       class/pollution severity III/2     2.5 kV       class/pollution severity III/2     2.5 kV <tr< td=""><td></td><td></td></tr<>		
Clamping range, min.   0.08 mm²     Clamping range, max.   1.5 mm²     AWG, min.   14     AWG, min.   0.2 mm²     Solid, max. H05(07) V-U   0.2 mm²     Solid, max. H05(07) V-U   1.5 mm²     Flexible, max. H05(07) V-K   0.2 mm²     Flexible, max. H05(07) V-K   0.2 mm²     With wire end ferrule, acc. to DIN 46 228 /1, min.   0.2 mm²     With wire end ferrule, acc. to DIN 46 228 /1, max.   1.5 mm²     w. plastic collar ferrule, DIN 46228 pt 4, min.   0.2 mm²     w. plastic collar ferrule, DIN 46228 pt 4, max.   1.5 mm²     Gauge to EN 60999 a x b; o   2.4 mm x 1.5 mm;     DIN IEC rating data   1.5 mm²     Rated current, min. No. pins (Tu=20°C)   12 A     Rated current, min. No. pins (Tu=40°C)   10 A     Rated current, max. No. pins (Tu=40°C)   10 A     Rated voltage for overvoltage class/pollution   160 V     severity II/2   2     Rated voltage for overvoltage class/pollution   160 V     severity II/2   2.5 kV     class/pollution severity II/2   2.5 kV     class/pollution severity II/2   2.5 kV     class/pollution	Contact surface	tinned
Clamping range, min.   0.08 mm²     Clamping range, max.   1.5 mm²     AWG, min.   14     AWG, min.   0.2 mm²     Solid, max. H05(07) V-U   0.2 mm²     Flexible, min. H05(07) V-K   0.2 mm²     Flexible, max. H05(07) V-K   0.2 mm²     Flexible, max. H05(07) V-K   0.2 mm²     With wire end ferrule, acc. to DIN 46 228/1, min.   0.2 mm²     With wire end ferrule, acc. to DIN 46 228 pt 4, min.   0.2 mm²     w. plastic collar ferrule, DIN 46228 pt 4, min.   0.2 mm²     w. plastic collar ferrule, DIN 46228 pt 4, max.   1.5 mm²     Gauge to EN 60999 a x b; ø   2.4 mm x 1.5 mm;     DIN IEC rating data   1.5 mm²     Rated current, min. No. pins (Tu=20°C)   12 A     Rated current, min. No. pins (Tu=20°C)   10 A     Rated current, max. No. pins (Tu=40°C)   8 A     Rated voltage for overvoltage class/pollution   160 V     severity II/2   2     Rated voltage for overvoltage class/pollution   160 V     severity II/2   2.5 kV     class/pollution severity II/2   2.5 kV     class/pollution severity II/2   2.5 kV     class/pollut	Connectable conductors	
Clamping range, max.     1.5 mm²       AWG, max.     28       Solid, min. H05(07) V-U     0.2 mm²       Solid, max. H05(07) V-U     1.5 mm²       Flexible, max. H05(07) V-K     0.2 mm²       Solid, max. H05(07) V-K     0.2 mm²       With wire end ferrule, acc. to DIN 46 228/1, min.     0.2 mm²       With wire end ferrule, acc. to DIN 46 228/1, max.     1.5 mm²       w, plastic collar ferrule, DIN 46228 pt 4, min.     0.2 mm²       With wire end ferrule, acc. to DIN 46 228/1, max.     1.5 mm²       w, plastic collar ferrule, DIN 46228 pt 4, max.     1.5 mm²       Rated current, max. No. pins (Tu=20°C)     12 A       Rated current, max. No. pins (Tu=20°C)     10 A       Rated current, max. No. pins (Tu=40°C)     10 A       Rated voltage for overvoltage class/pollution     320 V       severity II/2     160 V       Rated voltage for overvoltage class/pollution     160 V       severity III/2     2.5 kV       Class/pollution severity III/2     2.5 kV		0.09 mm <sup>2</sup>
AWG, max.     28       Solid, min. H05(07) V-U     0.2 mm²       Solid, max. H05(07) V-U     1.5 mm³       Flexible, min. H05(07) V-K     0.2 mm²       Flexible, min. H05(07) V-K     1.5 mm²       With wire end ferrule, acc. to DIN 46 228/1, min.     0.2 mm²       w, plastic collar ferrule, DIN 46228 pt 4, min.     0.2 mm²       w, plastic collar ferrule, DIN 46228 pt 4, max.     1.5 mm²       Gauge to EN 60999 a x b; a     2.4 mm x 1.5 mm?       Gauge to EN 60999 a x b; a     2.4 mm x 1.5 mm?       Bated current, min. No. pins (Tu=20°C)     10 A       Rated current, max. No. pins (Tu=40°C)     10 A       Rated current, max. No. pins (Tu=40°C)     8 A       Rated voltage for overvoltage class/pollution severity II/2     30 V       Rated voltage for overvoltage class/pollution severity II/2     160 V       Rated voltage for overvoltage class/pollution severity II/2     2.5 kV       class/pollution severity II/2     2.5 kV       class/pollution severity II/2     2.5 kV       <		
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AWG conductor, min. 28		
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Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 3.50 mm (0.138 inch) | Socket connectors, screw clamp connection, pitch 3.5 | BLZ 3.5/90/270 | BL 3.5/90F

## 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

Order No.		
1639010000	BL 3.5/2/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 90°, Box
1639240000	BL 3.5/2/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 90°, Box
1639020000	BL 3.5/3/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 90°, Box
1639250000	BL 3.5/3/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 90°, Box
1639030000	BL 3.5/4/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 90°, Box
1639260000	BL 3.5/4/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 90°, Box
1639040000	BL 3.5/5/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 90°, Box
1639270000	BL 3.5/5/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 90°, Box
1639050000	BL 3.5/6/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 90°, Box
1639280000	BL 3.5/6/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 90°, Box
1639060000	BL 3.5/7/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 90°, Box



Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 3.50 mm (0.138 inch) | Socket connectors, screw clamp connection, pitch 3.5 | BLZ 3.5/90/270 | BL 3.5/90F

	1639290000	BL 3.5/7/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 90°, Box
	1639070000	BL 3.5/8/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 90°, Box
	1639300000	BL 3.5/8/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 90°, Box
	1639080000	BL 3.5/9/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 90°, Box
	1639310000	BL 3.5/9/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 90°, Box
	1639090000	BL 3.5/10/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 90°, Box
	1639320000	BL 3.5/10/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 90°, Box
	1639100000	BL 3.5/11/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 90°, Box
	1639330000	BL 3.5/11/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 90°, Box
	1639110000	BL 3.5/12/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 90°, Box
	1639340000	BL 3.5/12/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 90°, Box
	1639120000	BL 3.5/13/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 90°, Box
	1639350000	BL 3.5/13/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 90°, Box
	1639130000	BL 3.5/14/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 90°, Box
	1639360000	BL 3.5/14/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 90°, Box
	1639140000	BL 3.5/15/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 90°, Box
	1639370000	BL 3.5/15/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 90°, Box



Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 3.50 mm (0.138 inch) | Socket connectors, screw clamp connection, pitch 3.5 | BLZ 3.5/90/270 | BL 3.5/90F

1639150000	BL 3.5/16/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 90°, Box
1639380000	BL 3.5/16/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 90°, Box
1639160000	BL 3.5/17/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 90°, Box
1639390000	BL 3.5/17/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 90°, Box
1639170000	BL 3.5/18/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 90°, Box
1639400000	BL 3.5/18/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 90°, Box
1639180000	BL 3.5/19/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 90°, Box
1639410000	BL 3.5/19/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 90°, Box
1639190000	BL 3.5/20/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 90°, Box
1639420000	BL 3.5/20/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 90°, Box
1639200000	BL 3.5/21/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 90°, Box
1639210000	BL 3.5/22/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 90°, Box
1639440000	BL 3.5/22/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 90°, Box
1639220000	BL 3.5/23/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 90°, Box
1639450000	BL 3.5/23/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 90°, Box
1639230000	BL 3.5/24/90F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 90°, Box
1639460000	BL 3.5/24/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 90°, Box

