General ordering data	4000 450000
Order No.	1639450000
Part designation	BL 3.5/23/90F SN SW
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 23, 90°, Box
EAN	4008190276997
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 23 1 0.4 x 2.5 DIN 5264 0.2 0.25 Nm M 2 6 mm 77 mm 3.031 inch IP 20 Safe from finger touch
Material data	
Insulating material	PBT
Colour colour chart	black Similar to DAL 0011
	Similar to RAL 9011 Illa
Insulating material group Flammability class UL 94	V-0
CTI	>= 200
	- 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	
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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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , Pitch: 3.50 mm, No. of poles: 21, 90°, Box
1639430000	BL 3.5/21/90F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , Pitch: 3.50 mm, No. of poles: 24, 90°, Box

