Concert No.   1639940000     Part designation   BL 3.5/3/270F SN OR     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: 3, 270°, Box     EAN   4008190277499     Qity.   100 pc(s).     System parameters   C     Conductor connection of conductor   270°     Pitch   3.5 mm     Pitch nich   0.138 inch     No. of poles   3     No. of poles   3     Screwdriver blade   0.4 x 2.5     Screwdriver blade   0.28 Nm     Clamping screw   M2     Stripping length   6 mm     L1 in inch   0.276 inch     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   Safe from finger touch     Material   PBT     Colour   orange     colour chart		L1+3xP   9
Part designation   BL 3.5/3/270F SN OR     Version   PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max:: 1.5 mm², Pitch: 3.50 mm, No. of poles: 3, 270°, Box     EAN   4008190277499     Qty.   100 pc(s).     System parameters   Clamping yoke connection     Conductor connection system   Clamping yoke connection     Outgoing direction of conductor   270°     Pitch   3.5 mm     Pitch in inch   0.138 inch     No. of poles   3     No. of poles   3     Screwdriver blade standard   DIN 5264     Tightening torque, min.   0.2     Clamping screw   M 2     Stripping length   6 mm     L1 in inch   0.276 inch     L1 in inch   0.276 inch     L1 in inch   0.276 inch     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   Safe from finger touch     Matting material   PBT     Colour   orange     colour   orange     colour   orange     colour   orange     colour<	General ordering data	
Version   PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 3, 270°, Box     EAN   4008190277499     Qty.   100 pc(s).     System parameters   Clamping yoke connection     Outgoing direction of conductor   270°     Pitch   3.5 mm     No. of poles   3     No. of poles   3     No. of poles   3     No. of poles   1     Screwdriver blade   0.4 x 2.5     Screwdriver blade standard   DIN 5264     Tightening torque, max.   0.25 Nm     Clamping screw   M 2     Stripping length   6 mm     L1 in inch   0.276 inch     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   Safe from finger touch     Matorial data   PBT     Colour   orange     Colour   orange     Colour chart   Similar to RAL 2000     Insulating material   PBT     Colour chart   Similar to RAL 2000		
Clamping yoke connection, Clamping range, max.:     1.5 mm², Pitch: 3.50 mm, No. of poles: 3, 270°,     Box     EAN   4008190277499     Qty.   100 pc(s).     System parameters     Conductor connection system   Clamping yoke connection     Outgoing direction of conductor   270°     Pitch   3.5 mm     Pitch in inch   0.138 inch     No. of poles   3     No. of rows   1     Screwdriver blade   0.4 x 2.5     Screwdriver blade standard   DIN 5264     Tightening torque, max.   0.28 Nm     Clamping screw   M 2     Stripping length   6 mm     L1 in mm   7 mm     L1 in inch   0.276 inch     Electric shock protection to DIN VDE 0470   Safe from finger touch     Vatorial data   PBT     Colour   orange     Colour chart   Similar to RAL 2000     Insulating material group   Illa     Flaammability class UL 94   V-0		
Qty.   100 pc(s).     System parameters     Conductor connection of conductor   270°     Pitch   3.5 mm     Pitch in inch   0.138 inch     No. of poles   3     No. of pows   1     Screwdriver blade   0.4 x 2.5     Screwdriver blade standard   DIN 5264     Tightening torque, max.   0.25 Nm     Clamping screw   M 2     Stripping length   6 mm     L1 in inch   0.276 inch     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   Safe from finger touch     Material PBT     Colour   orange     colour chart   Similar to RAL 2000     Insulating material group   IIIa     Flammability class UL 94   V-0	Version	Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 270°,
System parameters     Conductor connection system   Clamping yoke connection     Outgoing direction of conductor   270°     Pitch   3.5 mm     Pitch in inch   0.138 inch     No. of poles   3     No. of rows   1     Screwdriver blade   0.4 x 2.5     Screwdriver blade standard   DIN 5264     Tightening torque, min.   0.2     Tightening torque, max.   0.25 Nm     Clamping screw   M 2     Stripping length   6 mm     L1 in mm   7 mm     L1 in inch   0.276 inch     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   IP 20     Electric shock protection to DIN VDE 0470   Safe from finger touch     Metoral data   PBT     Colour   orange     colour chart   Similar to RAL 2000     Insulating material group   IIIa     Flammability class UL 94   V-0	EAN	4008190277499
Conductor connection systemClamping yoke connectionOutgoing direction of conductor270°Pitch3.5 mmPitch in inch0.138 inchNo. of poles3No. of rows1Screwdriver blade0.4 x 2.5Screwdriver blade standardDIN 5264Tightening torque, min.0.2Tightening torque, max.0.25 NmClamping screwM 2Stripping length6 mmL1 in mm7 mmL1 in inch0.276 inchElectric shock protection to DIN VDE 0470IP 20Electric shock protection to DIN VDE 0470PBTColourorangecolour chartSimilar to RAL 2000Insulating material groupIllaFlammability class UL 94V-0	Qty.	100 pc(s).
Insulating materialPBTColourorangecolour chartSimilar to RAL 2000Insulating material groupIIIaFlammability class UL 94V-0	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	270° 3.5 mm 0.138 inch 3 1 0.4 x 2.5 DIN 5264 0.2 0.25 Nm M 2 6 mm 7 mm 0.276 inch IP 20
	Insulating material Colour colour chart Insulating material group	orange Similar to RAL 2000 IIIa
CTI >= 200		
	CTI	>= 200



Motorial data	
Material data	Conner ellev
Contact base material	Copper alloy
Contact surface	tinned
Connectable conductors	
Connectable conductors	0.08 mm <sup>2</sup>
Clamping range, min.	1.5 mm <sup>2</sup>
Clamping range, max.	1.5 mm
AWG, min. AWG, max.	28
	20 0.2 mm <sup>2</sup>
Solid, min. H05(07) V-U	1.5 mm <sup>2</sup>
Solid, max. H05(07) V-U 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, min.	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; $\emptyset$	2.4 mm x 1.5 mm;
Gauge to EN 00999 a X D, Ø	2.4 mm x 1.5 mm,
DIN IEC rating data	
Rated current, min. No. pins (Tu=20°C)	12 A
Rated current, max. No. pins (Tu=20°C)	10 A
Rated current, min. No. pins(Tu=40°C)	10 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	
Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	28
AWG conductor (field wiring), max.	14
UL 1059 rating data	
Rated voltage (Use group D)	300 V
Rated current (Use group D)	8 A
AWG conductor, min.	28
AWG conductor, max.	14



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 3.5/270F

## 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.		
1639930000	BL 3.5/2/270F 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, 270°, Box
1640160000	BL 3.5/2/270F 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, 270°, Box
1640170000	BL 3.5/3/270F 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, 270°, Box
1639950000	BL 3.5/4/270F 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, 270°, Box
1640180000	BL 3.5/4/270F 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, 270°, Box
1639960000	BL 3.5/5/270F 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, 270°, Box
1640190000	BL 3.5/5/270F 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, 270°, Box
1639970000	BL 3.5/6/270F 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, 270°, Box
1640200000	BL 3.5/6/270F 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, 270°, Box
1639980000	BL 3.5/7/270F 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, 270°, Box
1640210000	BL 3.5/7/270F 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, 270°, 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 3.5/270F

	1639990000	BL 3.5/8/270F 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, 270°, Box
	1640220000	BL 3.5/8/270F 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, 270°, Box
	1640000000	BL 3.5/9/270F 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, 270°, Box
	1640230000	BL 3.5/9/270F 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, 270°, Box
	1640010000	BL 3.5/10/270F 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, 270°, Box
	1640240000	BL 3.5/10/270F 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, 270°, Box
	1640020000	BL 3.5/11/270F 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, 270°, Box
	1640250000	BL 3.5/11/270F 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, 270°, Box
	1640030000	BL 3.5/12/270F 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, 270°, Box
	1640260000	BL 3.5/12/270F 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, 270°, Box
	1640040000	BL 3.5/13/270F 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, 270°, Box
	1640270000	BL 3.5/13/270F 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, 270°, Box
	1640050000	BL 3.5/14/270F 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, 270°, Box
	1640280000	BL 3.5/14/270F 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, 270°, Box
	1640060000	BL 3.5/15/270F 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, 270°, Box
	1640290000	BL 3.5/15/270F 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, 270°, Box
	1640070000	BL 3.5/16/270F 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, 270°, 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 3.5/270F

1640300000	BL 3.5/16/270F 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, 270°, Box
1640080000	BL 3.5/17/270F 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, 270°, Box
1640310000	BL 3.5/17/270F 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, 270°, Box
1640090000	BL 3.5/18/270F 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, 270°, Box
1640320000	BL 3.5/18/270F 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, 270°, Box
1640100000	BL 3.5/19/270F 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, 270°, Box
1640330000	BL 3.5/19/270F 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, 270°, Box
1640110000	BL 3.5/20/270F 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, 270°, Box
1640340000	BL 3.5/20/270F 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, 270°, Box
1640120000	BL 3.5/21/270F 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, 270°, Box
1640350000	BL 3.5/21/270F 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: 21, 270°, Box
1640130000	BL 3.5/22/270F 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, 270°, Box
1640360000	BL 3.5/22/270F 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, 270°, Box
1640140000	BL 3.5/23/270F 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, 270°, Box
1640370000	BL 3.5/23/270F 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, 270°, Box
1640150000	BL 3.5/24/270F 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, 270°, Box
1640380000	BL 3.5/24/270F 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, 270°, Box

