Order No.1620820000Part designationBL 3.5/23F SN ORVersionPCB plug-in connector, Female connectors, Clamping yoke connector, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, No. of poles: 23, 180°, BoxEAN4008190164201Qty.20 pc(s).Systom parametersConductor connection systemClamping yoke connectionOutgoing direction of conductor180°Pitch3.5 mmPitch in inch0.138 inchNo. of poles23No. of poles23Screwdriver blade0.4 x 2.5Screwdriver blade standardDIN 5264Tightening torque, max.0.26 NmClamping screwM 2Stripping length6 mmL1 in inch3.031 inchL1 in inch3.031 inchL1 in inch3.031 inchL1 in inch3.031 inchElectric shock protection to DIN VDE 0470IP 20Electric shock protection to DIN VDE 0470IP 20 </th <th></th> <th>$\begin{array}{c} L1+3xP \\ \hline 0.728^{\circ} \\ \hline 0.728^{\circ} \\ \hline 0.417^{\circ} \end{array}$</th>		$\begin{array}{c} L1+3xP \\ \hline 0.728^{\circ} \\ \hline 0.728^{\circ} \\ \hline 0.417^{\circ} \end{array}$
Part designation BL 3.5/23F SN OR 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, 180°, Box EAN 4008190164201 Qty. 20 pc(s). System parameters Conductor connection system Clamping yoke connection Outgoing direction of conductor 180° Pitch 3.5 mm Pitch in inch 0.138 inch No. of poles 23 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 inch 3.031 inch L1 in inch 3.031 inch Electric shock protection to DIN VDE 0470 IP 20 Electric shock protection to DIN VDE 0470 Safe form finger touch Material data IBT Colour orange Colour orange Colour orange	General ordering data	40000000
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System parameters Conductor connection system Clamping yoke connection Outgoing direction of conductor 180° Pitch 3.5 mm Pitch in inch 0.138 inch No. of poles 23 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 M2 Stripping length 6 mm L1 in mm 77 mm L1 in inch 3.031 inch Electric shock protection to DIN VDE 0470 IP 20 Electric shock protection to DIN VDE 0470 Safe from finger touch Material data PBT Colour orange colour chart Similar to RAL 2000 Insulating material group Illa Flammability class UL 94 V-0	EAN	4008190164201
Conductor connection systemClamping yoke connectionOutgoing direction of conductor180°Pitch3.5 mmPitch in inch0.138 inchNo. of poles23No. of rows1Screwdriver blade0.4 x 2.5Screwdriver blade standardDIN 5264Tightening torque, min.0.2Tightening torque, max.0.25 NmClamping screwM 2Stripping length6 mmL1 in mm77 mmL1 in inch3.031 inchElectric shock protection to DIN VDE 0470IP 20Electric shock protection to DIN VDE 0470Form finger touchMaterial dataInsulating materialPBTColourorangecolour chartSimilar to RAL 2000Insulating material groupIllaFlammability class UL 94V-0	Qty.	20 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	180° 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
011 P=200	Insulating material Colour colour chart Insulating material group	orange Similar to RAL 2000 IIIa



Meterial data	
Material data	Connerellar
Contact base material	Copper alloy
Contact surface	tinned
Connectable conductors	
Clamping range, min.	0.08 mm ²
Clamping range, max.	1.5 mm ²
AWG, min.	14
AWG, max.	28
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²
With wire end ferrule, acc. to DIN 46 228/1, min.	0.2 mm ²
With wire end ferrule, acc. to DIN 46 228/1, max.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm ²
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)	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
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)	10 A
AWG conductor, min.	28
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

Order No.		
1606640000	BL 3.5/2F 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, 180°, Box
1615780000	BL 3.5/2F 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, 180°, Box
1606650000	BL 3.5/3F 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, 180°, Box
1615790000	BL 3.5/3F 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, 180°, Box
1606660000	BL 3.5/4F 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, 180°, Box
1615800000	BL 3.5/4F 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, 180°, Box
1606670000	BL 3.5/5F 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, 180°, Box
1615810000	BL 3.5/5F 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, 180°, Box
1606680000	BL 3.5/6F 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, 180°, Box
1615820000	BL 3.5/6F 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, 180°, Box
1606690000	BL 3.5/7F 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, 180°, 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 | BL 3.5/180F

	1615830000	BL 3.5/7F 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, 180°, Box
	1606700000	BL 3.5/8F 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, 180°, Box
	1615840000	BL 3.5/8F 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, 180°, Box
	1606710000	BL 3.5/9F 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, 180°, Box
	1615850000	BL 3.5/9F 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, 180°, Box
	1606720000	BL 3.5/10F 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, 180°, Box
	1615860000	BL 3.5/10F 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, 180°, Box
	1606730000	BL 3.5/11F 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, 180°, Box
	1615870000	BL 3.5/11F 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, 180°, Box
	1606740000	BL 3.5/12F 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, 180°, Box
	1615880000	BL 3.5/12F 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, 180°, Box
	1606750000	BL 3.5/13F 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, 180°, Box
	1615890000	BL 3.5/13F 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, 180°, Box
	1606760000	BL 3.5/14F 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, 180°, Box
	1615900000	BL 3.5/14F 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, 180°, Box
	1606770000	BL 3.5/15F 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, 180°, Box
	1615910000	BL 3.5/15F 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, 180°, 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 | BL 3.5/180F

1606780000	BL 3.5/16F 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, 180°, Box
1615920000	BL 3.5/16F 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, 180°, Box
1620760000	BL 3.5/17F 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, 180°, Box
1620840000	BL 3.5/17F 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, 180°, Box
1620770000	BL 3.5/18F 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, 180°, Box
1620850000	BL 3.5/18F 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, 180°, Box
1620780000	BL 3.5/19F 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, 180°, Box
1620860000	BL 3.5/19F 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, 180°, Box
1620790000	BL 3.5/20F 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, 180°, Box
1620870000	BL 3.5/20F 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, 180°, Box
1620800000	BL 3.5/21F 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, 180°, Box
1620880000	BL 3.5/21F 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, 180°, Box
1620810000	BL 3.5/22F 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, 180°, Box
1620890000	BL 3.5/22F 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, 180°, Box
1620900000	BL 3.5/23F 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: 23, 180°, Box
1620830000	BL 3.5/24F 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, 180°, Box
1620910000	BL 3.5/24F 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, 180°, Box

