



General ordering data

Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, Number of poles: 2, 180°
Order No.	1606640000
Type	BL 3.5/2F SN OR
EAN	4008190187088
Qty	100

System parameters

Conductor connection system	Clamping yoke connection
Outgoing direction of conductor	180°
Pitch	3,50 mm
Pitch in inch	0,138 inch
Number of poles	2
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	3,50 mm
L1 in inch	0,138 inch
Electric shock protection to DIN VDE 0470	IP 20
Electric shock protection to DIN VDE 0470	Safe from finger touch

Material data

Insulation material	PBT
Colour	orange
Insulating material group	IIIa
UL 94 combustibility class	V-0
CTI	>= 200
Contact base material	Cu 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
fine-stranded, min. H05(07) V-U	0,2
fine-stranded, max. H05(07) V-U	1,5 mm ²
Wire end ferrule , DIN 46 228/1, min.	0,2 mm ²
Wire end ferrule , 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 severity II/2	250 V
Rated voltage for overvoltage class/pollution severity III/2	160 V
Rated voltage for overvoltage class/pollution severity III/3	160 V
Rated impulse withstand voltage for overvoltage class/pollution severity II/2	2,5 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	2,5 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2,5 kV
Short-time withstand current resistance	3 x 1s with 100 A

CSA rating data

Rated voltage	300 V
Rated current	10 A
AWG conductor (field wiring), min.	28
AWG conductor (field wiring), max.	14

UL 1059 rating data

Rated voltage	300 V
Rated current	10 A
AWG conductor (field wiring), min.	28
AWG conductor (field wiring), max.	14

Approvals

Approvals institutes



Classifications

ETIM 2.0	NK
eClass 4.1	27-26-07-01
eClass 5.0	27-26-07-01
eClass 5.1	27-26-07-04

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Max. O.D. of conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- Wire end ferrule with plastic collar to DIN 46228 pt 4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Related products

Version	Order No.	Type
PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, Number of poles: 2, 180°	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, Number of poles: 3, 180°	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, Number of poles: 3, 180°	1615790000	BL 3.5/3F SN SW
PCB plug-in connector, Female connectors,	1606660000	BL 3.5/4F SN OR

Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 4, 180°

PCB plug-in connector, 1615800000 BL 3.5/4F SN SW
 Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 4, 180°

PCB plug-in connector, 1606670000 BL 3.5/5F SN OR
 Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 5, 180°

PCB plug-in connector, 1615810000 BL 3.5/5F SN SW
 Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 5, 180°

PCB plug-in connector, 1606680000 BL 3.5/6F SN OR
 Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 6, 180°

PCB plug-in connector, 1615820000 BL 3.5/6F SN SW
 Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 6, 180°

PCB plug-in connector, 1606690000 BL 3.5/7F SN OR
 Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm,

Number of poles: 7,
180°

PCB plug-in connector, 1615830000
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 7,
180°

BL 3.5/7F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 8,
180°

1606700000

BL 3.5/8F SN OR

PCB plug-in connector, 1615840000
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 8,
180°

BL 3.5/8F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 9,
180°

1606710000

BL 3.5/9F SN OR

PCB plug-in connector, 1615850000
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 9,
180°

BL 3.5/9F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 10,
180°

1606720000

BL 3.5/10F SN OR

PCB plug-in connector, 1615860000
Female connectors,

BL 3.5/10F SN SW

Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 10, 180°

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 11, 180°

1606730000

BL 3.5/11F SN OR

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 11, 180°

1615870000

BL 3.5/11F SN SW

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 12, 180°

1606740000

BL 3.5/12F SN OR

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 12, 180°

1615880000

BL 3.5/12F SN SW

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 13, 180°

1606750000

BL 3.5/13F SN OR

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm,

1615890000

BL 3.5/13F SN SW

Number of poles: 13,
180°

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 14,
180°

1606760000

BL 3.5/14F SN OR

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 14,
180°

1615900000

BL 3.5/14F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 15,
180°

1606770000

BL 3.5/15F SN OR

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 15,
180°

1615910000

BL 3.5/15F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 16,
180°

1606780000

BL 3.5/16F SN OR

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 16,
180°

1615920000

BL 3.5/16F SN SW

PCB plug-in connector,
Female connectors,

1620760000

BL 3.5/17F SN OR

Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 17, 180°

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 17, 180°

1620840000 BL 3.5/17F SN SW

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 18, 180°

1620770000

BL 3.5/18F SN OR

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 18, 180°

1620850000

BL 3.5/18F SN SW

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 19, 180°

1620780000

BL 3.5/19F SN OR

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm, Number of poles: 19, 180°

1620860000

BL 3.5/19F SN SW

PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.50 mm,

1620790000

BL 3.5/20F SN OR

Number of poles: 20,
180°
PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 20,
180°

1620870000

BL 3.5/20F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 21,
180°

1620800000

BL 3.5/21F SN OR

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 21,
180°

1620880000

BL 3.5/21F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 22,
180°

1620810000

BL 3.5/22F SN OR

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 22,
180°

1620890000

BL 3.5/22F SN SW

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 23,
180°

1620820000

BL 3.5/23F SN OR

PCB plug-in connector,
Female connectors,

1620900000

BL 3.5/23F SN SW

Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 23,
180°

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 24,
180°

1620830000

BL 3.5/24F SN OR

PCB plug-in connector,
Female connectors,
Clamping yoke
connection, Clamping
range, max.: 1.5 mm²,
Pitch: 3.50 mm,
Number of poles: 24,
180°

1620910000

BL 3.5/24F SN SW