

**System pitch 3.50 mm (0.138 inch)
BL 3.50/12/90F SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	1639340000
Part designation	BL 3.50/12/90F SN BK BX
Version	PCB plug-in connector, female plug, 3.5 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box
EAN	4008190276881
Qty.	50 pc(s).
Packaging	Box

System pitch 3.50 mm (0.138 inch) BL 3.50/12/90F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com

Technical data

System parameters

Conductor connection system	Clamping yoke connection	Outgoing direction of conductor	90°
Pitch in mm	3.5 mm	Pitch in inch	0.138 inch
No. of poles	12	No. of rows	1
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.2 Nm	Tightening torque, max.	0.25 Nm
Clamping screw	M 2	Stripping length	6 mm
L1 in mm	38.5 mm	L1 in inch	1.516 inch
Electric shock protection to DIN VDE 0470	IP 20	Electric shock protection to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	PBT	Colour	black
colour chart	Similar to RAL 9011	Insulating material group	IIla
Flammability class UL 94	V-0	CTI	≥ 200
Contact material	Copper alloy	Contact surface	tinned
Contact base material	Copper alloy		

Connectable conductors

Clamping range, min.	0.08 mm ²	Clamping range, max.	1.5 mm ²
Conductor connection cross-section AWG, min.	AWG 14	Conductor connection cross-section AWG, max.	AWG 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
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	with wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	with 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. of poles (Tu=20°C)	12 A	Rated current, max. No. of poles (Tu=20°C)	10 A
Rated current, no. of poles (Tu=40°C), min.	10 A	Rated current, no. of poles (Tu=40°C), max.	8 A
Rated voltage for overvoltage class/pollution severity II/2	320 V	Rated voltage for overvoltage class/pollution severity III/2	160 V
Rated voltage at overvoltage category/pollution degree 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 (Use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14

UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	8 A
Rated voltage (use group D)	300 V	Rated current (use group D)	8 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14

Datasheet

System pitch 3.50 mm (0.138 inch)
BL 3.50/12/90F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com

Technical data**Approvals**

Approvals institutes	CSA; GOSTME25; ROHS
----------------------	---------------------

Classifications

eClass 5.1	27-26-07-04	eClass 6.0	27-26-07-04
------------	-------------	------------	-------------

Datasheet

System pitch 3.50 mm (0.138 inch)
BL 3.50/12/90F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com

Drawings