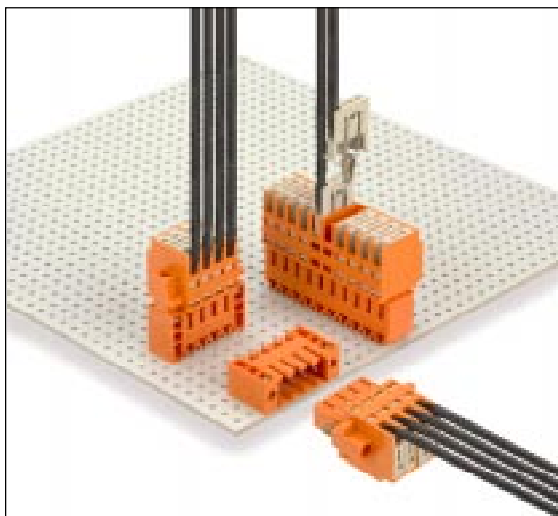


NEW

BLIDC 3.5 BLIDC B 3.5

PCB Connector Plugs with
Insulation Displacement
Technology (IDC) -
Standard and Bus Version



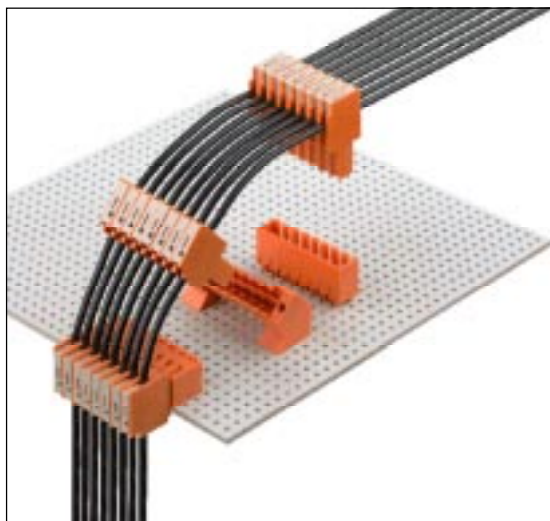
Introduction

Wiring time is reduced by 60% with Weidmüller's new Insulation Displacement Connector Plugs - BLIDC 3.5. The BLIDC can be used to connect cables in seconds, without special tools. The unstripped wire is simply inserted into the opened terminal point, which is then closed. During the closing movement, the innovative design of the IDC contact pierces and displaces the cable insulator, making a permanent, secure connection to the conductor. The contact wafer can also be easily removed and reinserted in the event of wiring errors.

The Bus version allows for a continuous, uninterrupted wiring system. Daisy chaining becomes simple and efficient. The BLIDC B 3.5 produces a timesaving of up to 80% over screw clamp Bus connectors.

The BLIDC 3.5 is available in two to sixteen pole versions. The BLIDC B is available in two to eight pole versions. Both are offered with or without mounting flanges, and feature a test probe access. One socket block has both 90 and 180 degree wire outlets. Coding keys and adhesive strip marking are available to customize your application.

All Weidmüller 3.5 mm plugs, including the new BLIDC and BLIDC B 3.5, can be mated with SL 3.5 pin headers and SL SMT 3.5 Surface Mount Compatible pin headers. Weidmüller also offers 3.5 mm connector plugs in screw clamp and



tension clamp varieties. Weidmüller is continuously expanding its offering of compact 3.5 mm PCB connectors to provide additional flexibility and choice for your application.

For fast, secure, and efficient wiring without special tools, the BLIDC 3.5 saves up to 60% in wiring time.

Benefits

- Fast, secure, efficient wiring without special tools
- 60% reduction in wiring time
- Reduced wiring costs
- One plug with both 90 and 180 degree cable outlet
- Test probe access
- Miswiring is easily corrected
- Uninterrupted Bus wiring

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ISO 9001
A2025

BLIDC 3.5



BLIDC 3.5 F with locking flanges



BLIDC B 3.5 Bus version



BLIDC B 3.5 F Bus version with locking flanges



Technical Data		Black Std. Pack		Black Std. Pack		Black Std. Pack		Black Std. Pack		
Materials		Black ¹⁾		Black ¹⁾		Black ¹⁾		Black ¹⁾		
Insulation material	PBT	PBT		PBT		PBT		PBT		
Color	Black ¹⁾	Black ¹⁾		Black ¹⁾		Black ¹⁾		Black ¹⁾		
Temperature Range	-20...+100°C	-20...+100°C		-20...+100°C		-20...+100°C		-20...+100°C		
Flammability class	UL 94 V-0	UL 94 V-0		UL 94 V-0		UL 94 V-0		UL 94 V-0		
Contact Base Material	CuSn	CuSn		CuSn		CuSn		CuSn		
Contact Plating	tin	tin		tin		tin		tin		
General		3.5 mm		3.5 mm		3.5 mm		3.5 mm		
Pitch	3.5 mm	3.5 mm		3.5 mm		3.5 mm		3.5 mm		
Connection method	IDC	IDC		IDC		IDC		IDC		
Insulation resistance	≥ 10 ⁵ MΩ	≥ 10 ⁵ MΩ		≥ 10 ⁵ MΩ		≥ 10 ⁵ MΩ		≥ 10 ⁵ MΩ		
Through resistance	≤ 5 mΩ	≤ 5 mΩ		≤ 5 mΩ		≤ 5 mΩ		≤ 5 mΩ		
Poles	2...16	2...16		2...8		2...8		2...8		
UL Rated Data		300 V		300 V		300 V		300 V		
Rated voltage, industrial	300 V	300 V		300 V		300 V		300 V		
Rated current	7 A	7 A		7 A		7 A		7 A		
Wire Size	22...20 AWG	22...20 AWG		22...20 AWG		22...20 AWG		22...20 AWG		
CSA Rated Data		300 V		300 V		300 V		300 V		
Rated voltage, industrial	300 V	300 V		300 V		300 V		300 V		
Rated current	7 A	7 A		7 A		7 A		7 A		
Wire size (22/1, 22/7, 20/1, 20/7, 20/19)	22...20 AWG	22...20 AWG		22...20 AWG		22...20 AWG		22...20 AWG		
VDE 0110 1.89 Rated Data		0.5 mm ²		0.5 mm ²		0.5 mm ²		0.5 mm ²		
Rated cross-section	0.5 mm ²	0.5 mm ²		0.5 mm ²		0.5 mm ²		0.5 mm ²		
Rated current (T _u =20°C)	6 A	6 A		6 A		6 A		6 A		
Overvoltage category / Pollution severity		III/3		III/3		III/3		III/3		
Rated voltage	125 V	125 V		125 V		125 V		125 V		
Impulse voltage	2.5 kV	2.5 kV		2.5 kV		2.5 kV		2.5 kV		
Wire Size ²⁾		0.5 mm ²		0.5 mm ²		0.5 mm ²		0.5 mm ²		
Clamping range	0.5 mm ²	0.5 mm ²		0.5 mm ²		0.5 mm ²		0.5 mm ²		
"e" solid H05(07) V-U	0.5 mm ²	0.5 mm ²		0.5 mm ²		0.5 mm ²		0.5 mm ²		
"f" flexible H05(07) V-K (only stranded wires)	0.5 mm ²	0.5 mm ²		0.5 mm ²		0.5 mm ²		0.5 mm ²		
"f" flexible FLR-Y-A accord. to DIN 72551	0.35 mm ²	0.35 mm ²		0.35 mm ²		0.35 mm ²		0.35 mm ²		
"f" flexible FLR-Y-B accord. to DIN 72551	0.35 mm ²	0.35 mm ²		0.35 mm ²		0.35 mm ²		0.35 mm ²		
Insulation diameter max.	2.1 mm ²	2.1 mm ²		2.1 mm ²		2.1 mm ²		2.1 mm ²		
Ordering Data		Black Std. Pack		Black Std. Pack		Black Std. Pack		Black Std. Pack		
	Poles	Description	Part No.	Qty	Description	Part No.	Qty	Description	Part No.	Qty
Note: To protect against injuries, we suggest using a simple backup guide while terminating the wires. Weidmüller offers this guide, please see ordering data below*. An SL 3.5 series header soldered onto a PCB can also serve as a back up guide.	2	BLIDC 3.5/2	177094	100	BLIDC 3.5/2 F	177109	100	BLIDC B 3.5/2	177067	100
	3	BLIDC 3.5/3	177095	100	BLIDC 3.5/3 F	177110	100	BLIDC B 3.5/3	177068	100
	4	BLIDC 3.5/4	177096	100	BLIDC 3.5/4 F	177111	100	BLIDC B 3.5/4	177069	100
	5	BLIDC 3.5/5	177097	50	BLIDC 3.5/5 F	177112	50	BLIDC B 3.5/5	177070	50
	6	BLIDC 3.5/6	177098	50	BLIDC 3.5/6 F	177113	50	BLIDC B 3.5/6	177071	50
	7	BLIDC 3.5/7	177099	50	BLIDC 3.5/7 F	177114	50	BLIDC B 3.5/7	177072	50
	8	BLIDC 3.5/8	177100	50	BLIDC 3.5/8 F	177115	50	BLIDC B 3.5/8	177073	50
	9	BLIDC 3.5/9	177101	50	BLIDC 3.5/9 F	177116	50			
	10	BLIDC 3.5/10	177102	50	BLIDC 3.5/10 F	177117	50			
	11	BLIDC 3.5/11	177103	50	BLIDC 3.5/11 F	177118	50			
	12	BLIDC 3.5/12	177104	50	BLIDC 3.5/12 F	177119	50			
	13	BLIDC 3.5/13	177105	50	BLIDC 3.5/13 F	177120	50			
	14	BLIDC 3.5/14	177106	50	BLIDC 3.5/14 F	177121	50			
	15	BLIDC 3.5/15	177107	50	BLIDC 3.5/15 F	177122	50			
	16	BLIDC 3.5/16	177108	50	BLIDC 3.5/16 F	177123	50			

¹⁾ orange available upon request

²⁾ conductor according to DIN EN 60352-4 / hardness of insulation ≥ 95 Shore A (or 95 ± 5 Shore A)

Weidmüller connectors are tested according to the DIN VDE 0627 standard, and are valid for this field of application. Provided that the connectors are used for the intended purpose, all requirements with respect to the occurrence of electrical, mechanical, thermic and corrosive stress will be satisfied.

*IDC Tools

Description	Type	Part No.
Screwdriver for pitch 3.50 mm	SDI 0.4 x 2.5 x 80	9008370000
Assembly Backup Guide for BLIDC 3.5	BLIDC 3.5 ASB	1774050000
for BLIDC B 3.5	BLIDC B 3.5 ASB	1770310000