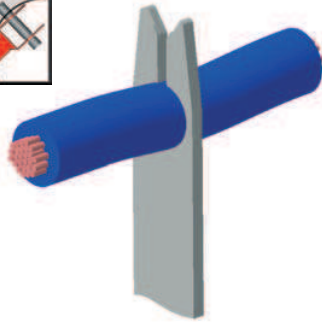
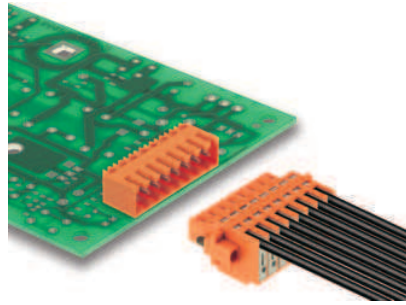


IDC connection socket connectors

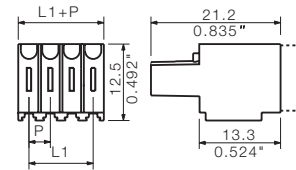
Omnimate Range
Pitch 3.50 / 3.81



BLIDC 3.5



BLIDC 3.5



IDC (Insulation Displacement Connection) is the fastest manual cable connection method available. It is 60 % faster than screw clamping, and 40 % faster than tension clamp connections. IDC completely removes the need to strip the insulation from the cable.

The unprepared flexible cable is simply inserted into the cable-entry point. The cable slide is then pushed into place using thumb or screwdriver, and the connection is then complete.

The main body of the connector houses a V-shaped IDC blade which cuts through the cable insulation and bites into the bare copper. This produces a gas-tight and vibration-resistant connection. The Weidmüller IDC connections are designed to and conform with DIN EN 60 352-4.

- 0.35 – 0.5 mm² (IEC) / 22 – 20 AWG (UL)
- 160 V (IEC) / 300 V (UL)
- 6 A (IEC) / 7 A (UL)

D

Technical data

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)			
Clamping range, max.	mm ²	0.32...0.50	
Solid H05(07) V-U	mm ²	0.50...0.50	
Stranded H07 V-R	mm ²		
Flexible H05(07) V-K	mm ²	0.50...0.50	
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Rated current at ambient temperature			
	A	20°C	40°C
		6.0	5.0
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	160	160 250
Rated impulse voltage	kV	2.5	2.5 2.5
UL 1059 rated data - E60693			
		B	C D
Rated voltage	V	300	300
Rated current	A	7.0	7.0
AWG conductor		22-20	
CSA C22.2 rated data - LR12400 B			
		B	C D
Rated voltage	V	300	300
Rated current	A	7.0	7.0
AWG conductor		22-20	
Material data			
Type of insulating material		PBT	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Contact plating		tin plated	
Information			

- Additional colours on request
- Rated current refers to rated cross-section and min. number of poles
- for IDC contact 0.5: Conductor acc. to DIN EN 60352-4
- AWG conductor: solid or flexible, 7 or 19 strands
- Temperature range -20 to +80 °C
- BLIDC 3.5 and BLIDCB 3.5 conductors e/f acc. to DIN 47726
- Drawing information P = Pitch

Ordering data

Solder pin length			
Colour		orange	black
Pitch 3.50 mm			
Poles	L1 mm (inch)	Qty.	Order no.
2	3.50 (0.138)	100	1750790000 1770940000
3	7.00 (0.276)	100	1750800000 1770950000
4	10.50 (0.413)	100	1750810000 1770960000
5	14.00 (0.551)	50	1750820000 1770970000
6	17.50 (0.689)	50	1750830000 1770980000
7	21.00 (0.827)	50	1750840000 1770990000
8	24.50 (0.965)	50	1750850000 1771000000
9	28.00 (1.102)	50	1750860000 1771010000
10	31.50 (1.240)	50	1750870000 1771020000
11	35.00 (1.378)	50	1750880000 1771030000
12	38.50 (1.516)	50	1750890000 1771040000
13	42.00 (1.654)	50	1750900000 1771050000
14	45.50 (1.791)	50	1750910000 1771060000
15	49.00 (1.929)	50	1750920000 1771070000
16	52.50 (2.067)	50	1750930000 1771080000