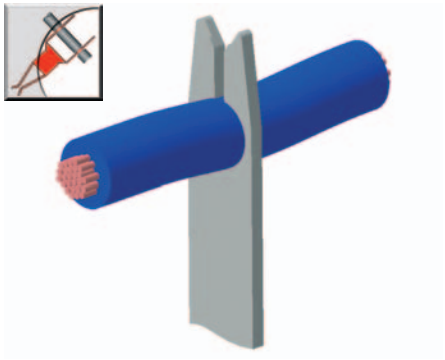
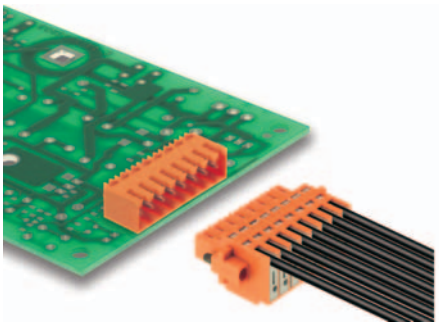
IDC connection socket connectors



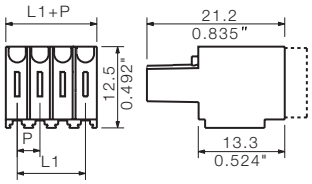
IDC (Insulation Displacement Connection) is the fastest manual cable connection method available. It is 60 % faster than screw clamping. and 40 % faster than tension clamp connections.
IDC completely removes the need to strip the insulation from the cable.
The unprepared flexible cable is simply inserted 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 Weidmueller IDC connections are designed to and conform with DIN EN 60 352-4.

BLIDC 3.5



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

BLIDC 3.5



Technical data

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)				
Clamping range, max.	mm²	0.32…0.50		
Solid H05(07) V-U	mm²	0.50…0.50		
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²	0.50…0.50		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	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.**	**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**

Articles with coloured order number are kept permanently in stock at the central warehouse in Germany.
Delivery times see page X.2