Hitaltech
A group of connecting technologies

FLEXIBLE INTERCONNECT SYSTEMS

FIX JUMPER

Hitaltech FIX JUMPERS are highly flexible flat conductor connectors. Solid round conductors ensure fast and secure assembly. The round-flat-round technology combines both: The copper conductors are rolled flat to a defined geometry in the insulating area, ensuring the highest standards of vibration and bending resistance. The smooth notch-free transition from round to flat guarantees fracture-safe connection points. The following materials can be used for the insulation: Polyerster, Nomex (Aramid), PEN (Polyethlenaphthalat) or Polyimide (Kapton).

CHARACTERISTICS

- Through Hole Technology (THT)
- High vibration and bending resistance Reliable and fracture-safe connection Very easy handling
- Immediately ready for installation
- Economizes working time and assembly costs
- Minimum space required
- Wiring errors are avoided
- Choice of various termination styles
- Allows combination with male connectors
- High-quality insulation materials (-40°C to +125°C) Different pitches within one jumper available (MIX) Short insulation lengths also available as wire jumpers (without the flat rolled copper section)

BENEFITS

- Smooth notch-free transition from flat to round
- Fracture-safe connection point Compensation of intrinsic vibrations Reduction of tension in the soldering area Avoidance of vibration resonances

FLAT-ROUND-180° – ANALYSIS

- Shifting of the bending stress into the flexible area
- Reduction of the beding stress at the solder joint
- High durabilitiy

Pitch
e.g. A= 2,54 mm
see pitch code

Insulation material
e.g.
P = Polyester
N = Aramid fiber
E = PEN
K = Polyimide

Termination Style
e.g.
A = identical ends
AN = different
see chart, combinations on request

A 05 – N 051 – A – □

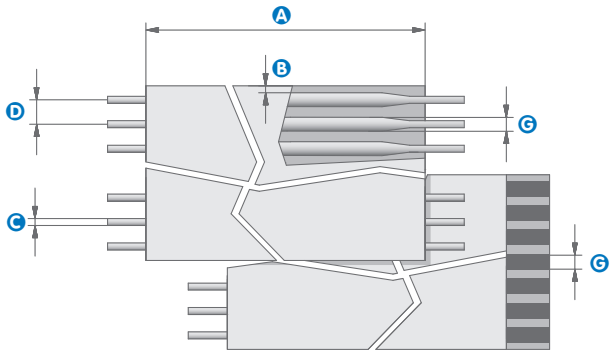
Number of pins

Insulation length
from 15-5000 mm
Special lengths on request

Special designs
on request, drawing required

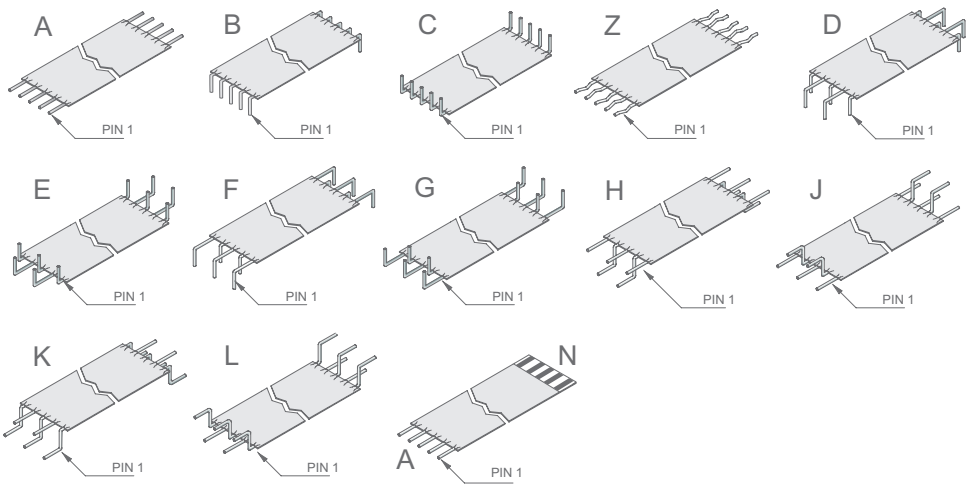
TECHNICAL DATA

	Order code	E	G	B	L	D	F	A	Z	P	R	C
D	**Pitch** (mm)	1,00	1,25	1,27	1,90	2,00	2,50	2,54	3,18	3,50	3,81	5,08
	Max. number of pins	32	32	32	32	32	32	32	25	23	20	16
A	**Length** (mm)	15-5000										
B	**Min. margin** (mm)	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,5	0,5
C	**Pin diameter** (mm)	0,32	0,32	0,32	0,40	0,40	0,51	0,51	0,51	0,51	0,51	0,51
	American Wire Gauge (AWG)	28	28	28	26	26	24	24	24	24	24	24
G	**Flat conductor width** (mm)	0,7	0,75	0,75	1,35	1,35	1,5	1,5	1,5	1,5	1,5	1,5
	Flat conductor thickness (µm)	80	90	90	110	110	110	110	110	110	110	110
	Conductor material	Cu-ETP (E-Cu); min 1,5 µm tin-plated					min 2-3 µm tin-plated					
	Current rating at 20°C (A)	1,0	1,5	1,5	2,0	2,0	3,5	3,5	3,5	3,5	3,5	3,5
	Voltage rating (V_{DC})	200	200	200	200	200	300	300	300	300	300	300
	Dielectric strength ($V_{DC/min}$)	700	700	700	1500	1500	1500	1500	1500	1500	1500	1500



	Insulation	Polyester	Aramid fiber	PEN	Polyimide
	Insulation resistance (Ω - GRD-SIG-GRD)	$>10^{10}$			
	Operation temperature (°C)	-40 ... +105	-40 ... +125	-40 ... +125	-40 ... +125
	Soldering temperature* (°C/ sec.)	250/4	260/5	260/5	260/5

TERMINATION STYLES



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