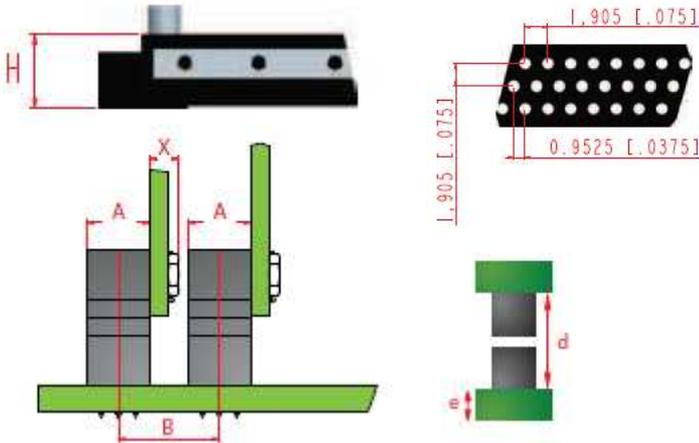




HiLinX 1.905[.075] >>> TECHNICAL SPECIFICATIONS

DIMENSIONAL CHARACTERISTICS



- H = 7.62_{MAX} [.300]
- A = 5.12_{MAX} [.202] for 2-row connectors
- A = 7_{MAX} [.276] for 3-row connectors
- B = 5.72 + X [.225 + X] for 2-row connectors
- B = 7.6 + X [.300 + X] for 3-row connectors
- X = Board thickness + hardware thickness
- d = 15.24_{MAX} [.600]
- e = 1.8 [.071] to 3.4 [.134] or 2.5_{MIN} [.098] (for YP contacts)

FEMALE CONTACT



Starclip female technology: 6 tines for better reliability

- 6 contact tines instead of 4
- Excellent mechanical and electrical reliability
- Better resistance to high vibrations
- Improved electrical conductivity
- 100% compatible with other connectors

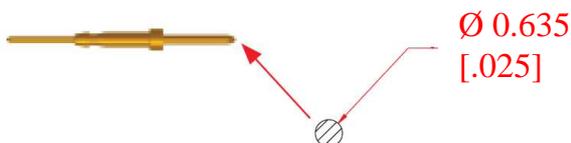
Material

- Hood: machined brass alloy
- Starclip: CuBe[BeCu], stamped and formed

Plating

- Barrel: tin lead or lead free
- Starclip: gold over nickel

MALE CONTACT



Mating end diameter: Ø 0.635 [.025]

Contact section (mating side): 0.32 mm² [.0005 in²]

Material: brass alloy (machined)

Plating: gold over nickel

MATERIALS

Guiding devices: electroless nickel plating over brass CuZn or passivated stainless steel 303

Rails: passivated stainless steel 316L

Plastic insert: thermoplastic LCP, 30% glass-fiber filled

MECHANICAL, ENVIRONMENTAL AND ELECTRICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS	MIL DTL 55302 sections	
Backoff ¹ (mm)	0.8 _{MAX} [.031]	N/A
Mating force per contact (N)	0.85 _{MAX}	§ 4.5.3
Unmating force per contact (N)	0.35 < F < 0.85	§ 4.5.3
Durability cycles	500	§ 4.5.9
Sinusoidal vibrations (10 to 2000 Hz) micro discontinuity 2ns	15 g	§ 4.5.10
Random vibrations (5 to 2000 Hz) micro discontinuity 2ns	0.5 g ² / Hz	§ 4.5.10
Shocks 6ms ½ sinus 2ns	100 g	§ 4.5.10
ENVIRONMENTAL CHARACTERISTICS		
Thermal shocks (°C)	-65 / +150	§ 4.5.13
Salt Spray (hours)	96	§ 4.5.11
Humidity		
Days	10	§ 4.5.15
Temperature (°C)	25/65	
Humidity rate (%)	90-95	
ELECTRICAL CHARACTERISTICS		
Current rating per contacts (A)	3*	§ 4.5.5
Insulation resistance (at 500Vdc) (GΩ)	5 _{MIN}	§ 4.5.8
Contact resistance (mΩ)	10 _{MAX}	§ 4.5.12
Dielectric Withstanding Voltage (Vrms)	750 _{MIN}	§ 4.5.7.1

¹: When both connectors are fully mated, the backoff is the maximum distance the connectors can be unmated while functioning properly

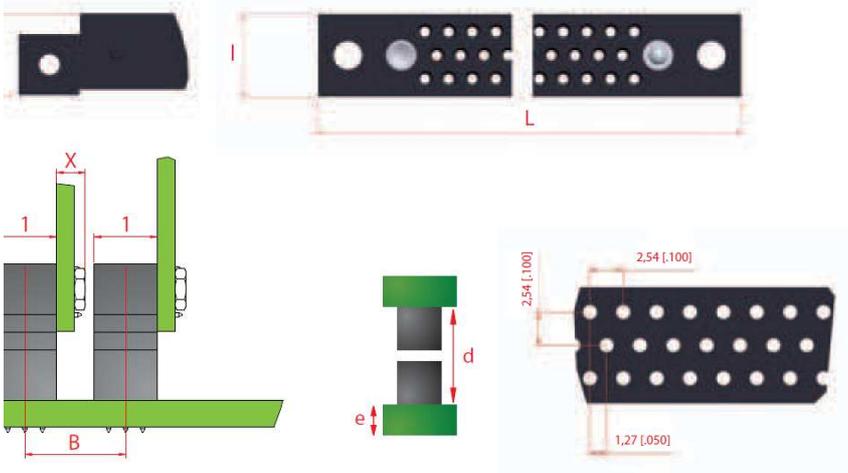


Download our HiLinX catalogue with all the technical datas on our dedicated website: www.pcb-interconnect.com



HiLinX 2.54[.100] >>> TECHNICAL SPECIFICATIONS

DIMENSIONAL CHARACTERISTICS



$H = 8.5$ [.335] for receptacles
 $H = 10.2_{MAX}$ [.401] for plugs
 $I = 6.4_{MAX}$ [.252] for 2-row connectors
 $I = 8.95_{MAX}$ [.352] for 3-row connectors
 $L = 34.29$ [1.350] to 110.49 [4.350] for 2-row connectors
 $L = 63.5$ [2.500] to 165.1 [6.500] for 3-row connectors
 $B = 7 + X$ [.276 + X] for 2-row connectors
 $B = 9.55 + X$ [.376 + X] for 3-row connectors
 $X =$ Board thickness + hardware thickness
 $d = 17_{MAX}$ [.670]
 $e = 1.8$ [.071] to 3.4 [.134] or 2.5_{MIN} [.0981] (for YP contacts)

FEMALE CONTACT



Starclip female technology: 6 tines for better reliability

- 6 contact tines instead of 4
- Excellent mechanical and electrical reliability
- Better resistance to high vibrations
- Improved electrical conductivity
- 100% compatible with other connectors

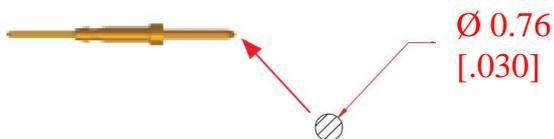
Material

- Hood: machined brass alloy
- Starclip: CuBe[BeCu], stamped and formed

Plating

- Barrel: tin lead or lead free
- Starclip: gold over nickel

MALE CONTACT



Mating end diameter: $\varnothing 0.76$ [.030]

Contact section (mating side): 0.45 mm^2 [.0007 in²]

Material: brass alloy (machined)

Plating: gold over nickel

MATERIALS

Guiding devices: electroless nickel plating over brass CuZn or passivated stainless steel 303

Rails: passivated stainless steel 316L

Plastic insert: thermoplastic LCP, 30% glass-fiber filled

MECHANICAL, ENVIRONMENTAL AND ELECTRICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS	MIL DTL 55302 sections	
Backoff¹ (mm)	> 0.9 [.035]***	N/A
Mating force per contact (N)	0.98 _{MAX}	§ 4.5.3
Unmating force per contact (N)	0.981 _{MAX}	§ 4.5.3
Durability cycles	500	§ 4.5.9
Sinusoidal vibrations (10 to 2000 Hz) micro discontinuity 2ns	15 g	§ 4.5.10
Random vibrations (5 to 2000 Hz) micro discontinuity 2ns	0.5 g ² / Hz	§ 4.5.10
Shocks 6ms ½ sinus 2ns	100 g	§ 4.5.10
ENVIRONMENTAL CHARACTERISTICS		
Thermal shocks (°C)	-65 / +150	§ 4.5.13
Salt Spray (hours)	96	§ 4.5.11
Humidity		
Days	10	§ 4.5.15
Temperature (°C)	25 / 65	
Humidity rate (%)	90-95	
ELECTRICAL CHARACTERISTICS		
Current rating per contacts (A)	5**	§ 4.5.5
Insulation resistance (at 500Vdc) (GΩ)	5 _{MIN}	§ 4.5.8
Contact resistance (mΩ)	10 _{MAX}	§ 4.5.12
Dielectric Withstanding Voltage (Vrms)	1000 _{MIN}	§ 4.5.7.1

¹: When both connectors are fully mated, the backoff is the maximum distance the connectors can be unmated while functioning properly



Download our HiLinX catalogue with all the technical datas on our dedicated website: www.pcb-interconnect.com