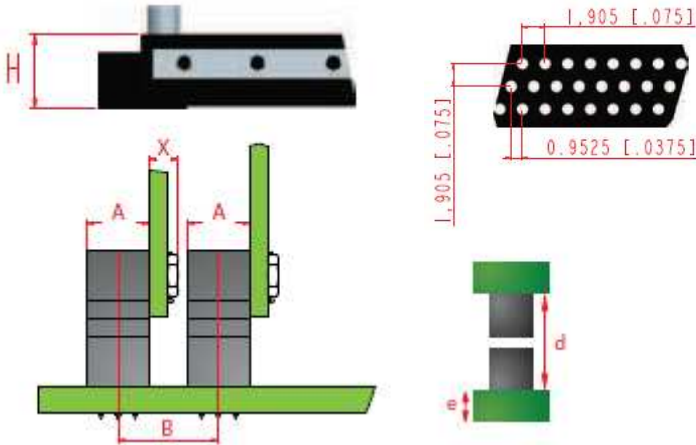




HiLinX 1.905[.075] >>> TECHNICAL SPECIFICATIONS

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

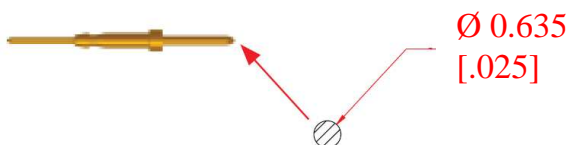
Material

- 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: $\text{Ø } 0.635$ [.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

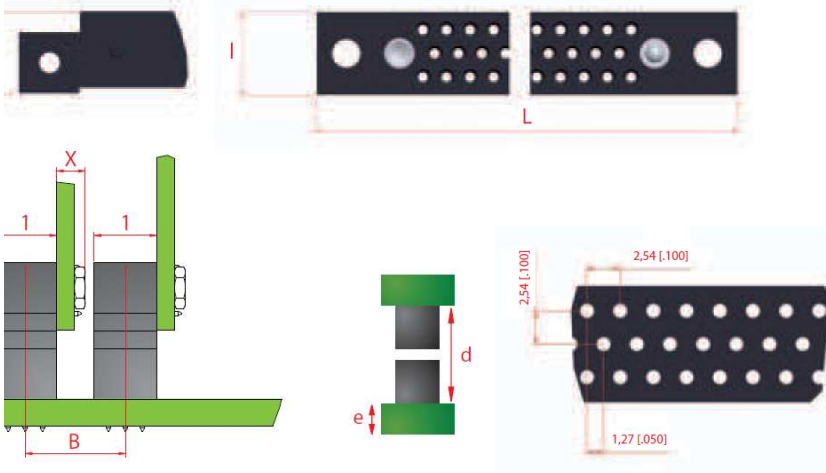


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HiLinX 2.54[.100] >>> TECHNICAL SPECIFICATIONS

DIMENSIONAL CHARACTERISTICS



$H = 8.5$ [.335] for receptacles
 $H = 10.2_{MAX}$ [.401] for plugs
 $l = 6.4_{MAX}$ [.252] for 2-row connectors
 $l = 8.95_{MAX}$ [.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

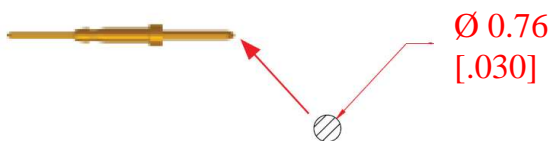
Material

- 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



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