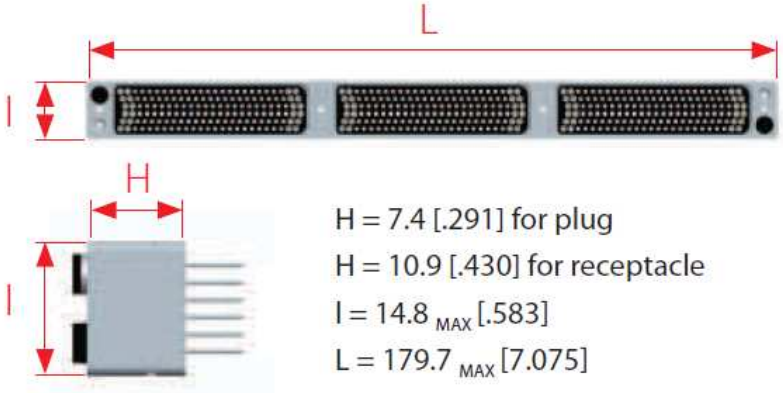
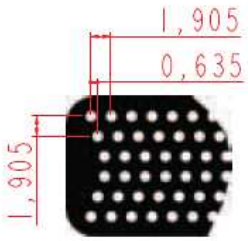
SMASH >>> TECHNICAL SPECIFICATIONS

DIMENSIONAL CHARACTERISTICS



H = 7.4 [.291] for plug
H = 10.9 [.430] for receptacle
I = 14.8 $_{MAX}$ [.583]
L = 179.7 $_{MAX}$ [7.075]



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

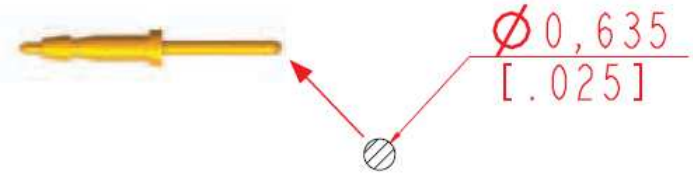
Material

→ Barrel: machined brass alloy
→ Starclip: CuBe[BeCu], stamped and formed

Plating

→ Barrel: tin lead or lead free
→ Clip: 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: passivated stainless steel 303
Shells: aluminum 6060 T6
Plating shells: electroless nickel
Plastic insert & coding devices: thermoplastic LCP, 30% glass- fiber filled

MECHANICAL, ENVIRONMENTAL AND ELECTRICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS		
Backoff[1] (mm)	1.2 $_{MAX}$ [.047]	N/A
Mating force per contact (N) **Unmating force** per contact (N)	100g 40g	§ 4.5.4
Durability cycles	500	§ 4.5.9
Sinusoïdal vibrations (10 to 2000 Hz) micro discontinuity 2ns **Random vibrations** (600 to 700 Hz) micro discontinuity 2ns **Shocks** micro discontinuity 2ns	15 g 2.682g^2 / Hz 100 g / 6s	§ 4.5.10 *Consult us* § 4.5.14
Recommended tightening torques - nuts for M2.5 screws, brass (m.N) - nuts for M2 screws, brass (m.N)	 0.25 0.2	 N / A
ENVIRONMENTAL CHARACTERISTICS		
Thermal shocks Temperature (°C) cycles	 -65 / +150 5	 § 4.5.13
Salt Spray hours	96	§ 4.5.11
ELECTRICAL CHARACTERISTICS		
Current rating per contacts (A)	3 $_{MAX}$	§ 4.5.5
Insulation resistance (GΩ)	5 $_{MIN}$	§ 4.5.8
Contact resistance (mΩ)	10 $_{MIN}$	§ 4.5.12
Dielectric Withstanding Voltage (Vrms)	1000 $_{MIN}$	§ 4.5.7.1
Service voltage (at 50 Hz) (Vrms)	250	N / A

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

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