

# LSH SERIES

*Rack and Panel Connectors*



## FEATURES & BENEFITS

- ▶ 200 A per contact
- ▶ 1 to 6 contacts
- ▶ Low mating forces
- ▶ Polyphenylene sulfide (PPS) insulators
- ▶ Radial float 0.049" (1.25 mm)
- ▶ 0.241" (6.12mm) contacts
- ▶ Threaded terminals
- ▶ Single row 0.925" (23.50mm) pitch
- ▶ Blind mate capability

The LSH rack and panel connector from Smiths Connectors is deployed across many different market segments including aerospace, automotive, industrial, test & measurement, and mass transit. The foundation upon which the LSH is built is the leading-edge Hypertac® hyperboloid technology. This world class interconnect technology ensures LSH connectors are immune to shock, vibration and fretting. In addition, it features the low insertion and extraction forces that are a catalyst for easy mating. The LSH Series delivers customers a life cycle that can be maintained for 100,000+ mating cycles and at an extremely low cost of ownership.

## TECHNICAL CHARACTERISTICS

Number of Rows/Ways	1 Row
Pitch	0.925" (23.50 mm)
Contact Positions	1 to 6
Contact Termination	Threaded
Nominal Current	200 A per contact
Nominal Pin Diameter	0.241" (6.12 mm)
Resistance	< 0.10 milliohms
Contact Life Cycles	100,000

### MECHANICAL & ENVIRONMENTAL

Contact Style/Termination	Threaded
Operating Temperature	-55° to 125°C
Extraction Force	80 to 160 oz. max per contact

### MATERIALS & FINISHES

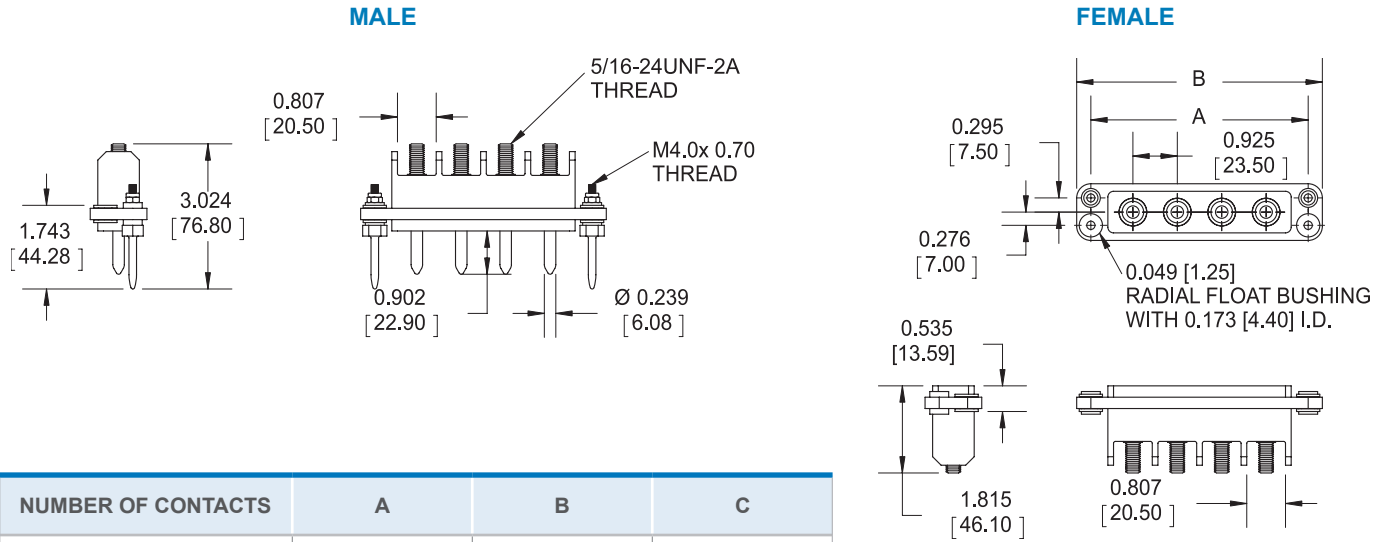
Insulator	Polyphenylene sulfide (PPS)
Contact	Beryllium copper
Contact Plating	Gold over nickel

### ELECTRICAL

Current Rating	200 A per contact
DWV	3,000 V RMS
Breakdown Voltage	4,000 V RMS
Insulation Resistance	> 10 <sup>6</sup> megohms at 500 VDC

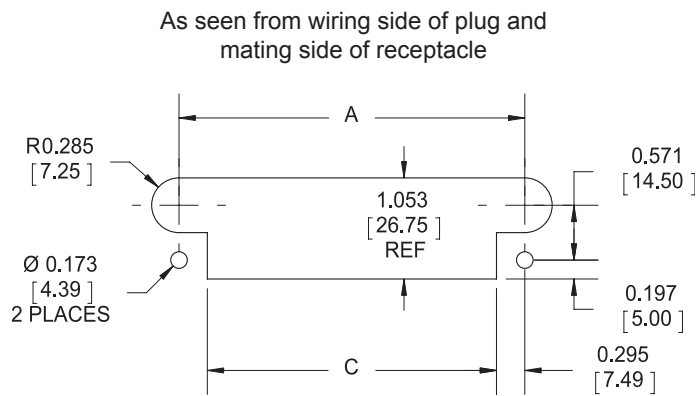
# DIMENSIONS

## CONNECTOR DIMENSIONS



NUMBER OF CONTACTS	A	B	C
1	1.752 [44.50]	2.342 [59.50]	1.161 [29.50]
2	2.677 [68.00]	3.268 [83.00]	2.087 [53.00]
3	3.602 [91.50]	4.193 [106.50]	3.012 [76.50]
4	4.528 [115.00]	5.118 [130.00]	3.937 [100.00]
5	5.453 [138.50]	6.043 [153.50]	4.862 [123.50]
6	6.378 [162.00]	6.969 [177.00]	5.787 [147.00]

## MOUNTING DIMENSIONS



# HOW TO ORDER



## 1 ▶ CONNECTOR SERIES *(Fixed)*

**LSH** SERIES

## 2 ▶ NUMBER OF CONTACTS

**01, 02, 03, 04, 05, 06** CONTACTS

## 3 ▶ CONTACT GENDER

**M** MALE    **F** FEMALE

## 4 ▶ PLATING

**TG** 10 µin GOLD (MIN) OVER NICKEL    **TH** 50 µin GOLD (MIN) OVER NICKEL

**TAH** 50 µin GOLD (MIN) OVER NICKEL ON MATING SURFACE, GOLD FLASH OVER NICKEL ON TERMINATION

