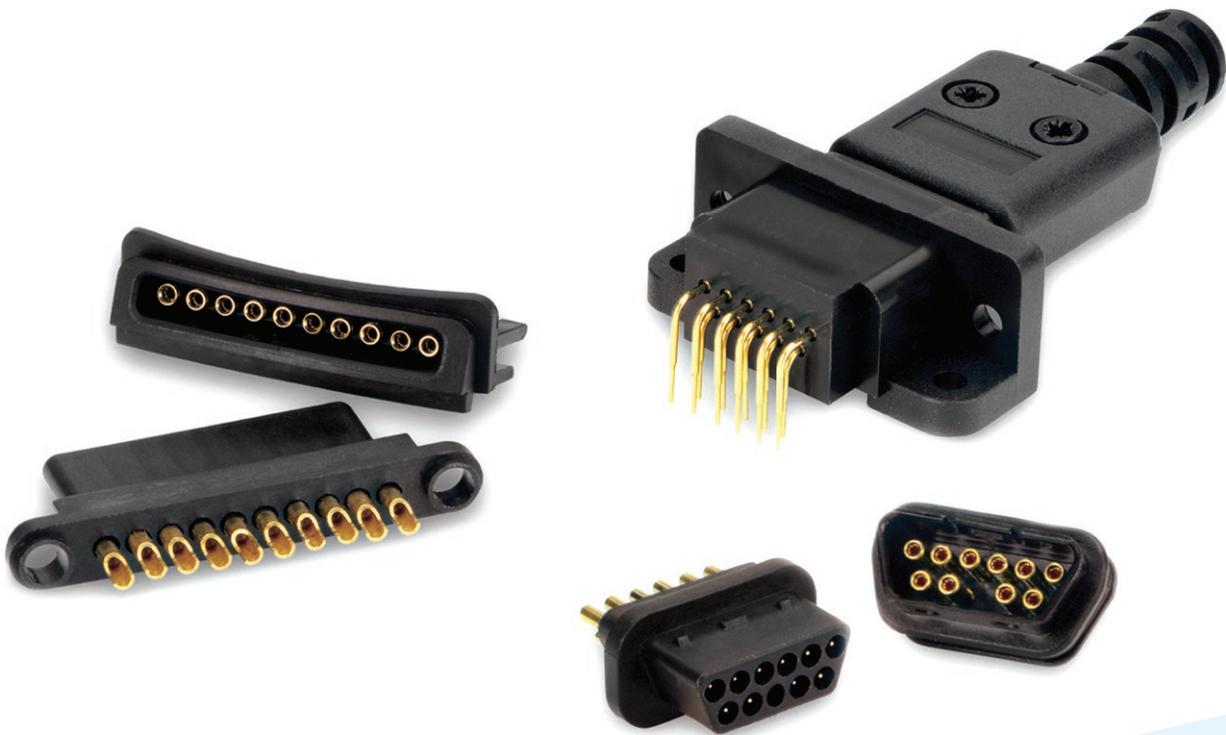


KS SERIES

Rugged Docking/Portable Device Connectors



FEATURES & BENEFITS

- ▶ **Cable to board connectors**
- ▶ **Single and dual row connector designs**
- ▶ **Hypertac® contact reliability**
 - ▶ Up to 100,000 mating cycles
 - ▶ Immune to shock and vibration
 - ▶ Low insertion/extraction forces
 - ▶ Minimal contact resistance
- ▶ **Robust insulator design**
 - ▶ Recessed pins and sockets for protection
 - ▶ Broad temperature rating: -55° to 125° C
 - ▶ Rugged insulator materials
 - ▶ Optional locking or latching feature
- ▶ **Design flexibility**
 - ▶ Signal/power combinations
 - ▶ Available “first mate, last break” system
 - ▶ Cable assembly capability
 - ▶ Termination styles include: solder cup, straight dip, crimp, surface mount and right angle

The Smiths Connectors KS Series are high reliability docking connectors designed for data collection devices in the medical and light industrial applications. Used to transmit pertinent data, KS Series connectors provide the absolute reliability that these portable electronic devices require. From shrinking form factors to performance in the most rugged, remote environments, Smiths Connectors delivers superior interconnect solutions.

KS Series connectors offer up to 100,000 mating cycles, immunity to shock and vibration, current carrying capacity up to 4 amps per contact and low insertion/extraction forces, eliminating the quality issues commonly associated with commodity connector solutions. To protect the pins and sockets, its design features recessed Hypertac® contacts within an insulator made from rugged, heavy-duty polymers that prevents cracking in extreme environments.

Smiths Connectors’ suite of products and services provides industry-leading performance and unequaled reliability for heavy-use, data-critical applications such as docking stations for portable scanning devices or rugged mobile industrial computers.

TECHNICAL CHARACTERISTICS

Number of Contacts	10
Contact Diameter	0.018 [0.45]
Contact Spacing	0.083 [2.10]
Current Rating	2.5 A per contact
Contact Resistance	< 8 milliohms per contact
Extraction Force	0.3 to 2.0 oz. per contact
Contact Life Cycle	100,000
Breakdown Voltage Between Contacts	> 1200 V RMS
DWV	1000 V RMS
Temperature Rating	-55° to 85° C
Insulation Resistance	>10 ³ megohms

MATERIALS & FINISHES

Pins (T)	Phosphor bronze 10 µin gold over nickel plating
Sockets (TABH)	Brass bodies/beryllium copper contact wires 50 µin gold over nickel on mating surface, tin lead over nickel on termination

ORDERING INFORMATION

Single Row	Plug (Solder Cups): KS10/210APMST Receptacle (Surface Mount): KS10/210AEFDTABH
Dual Row	Plug (Crimp): KS10/105BPMRT Receptacle (Straight Dip): KS10/105BEFDTABH

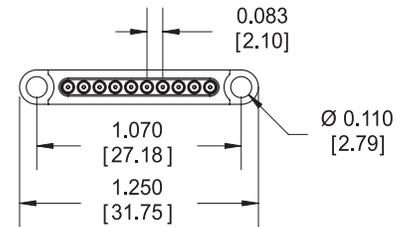
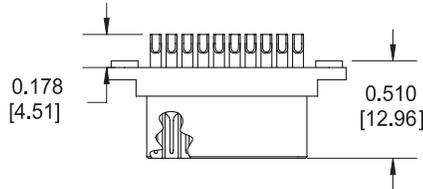
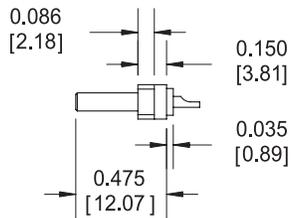
DIMENSIONS

► SINGLE ROW

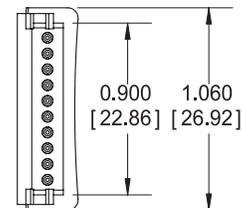
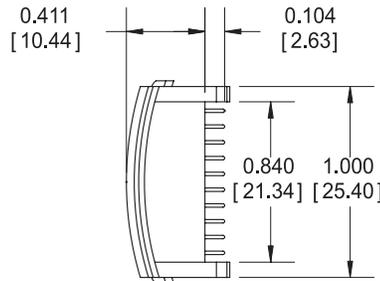
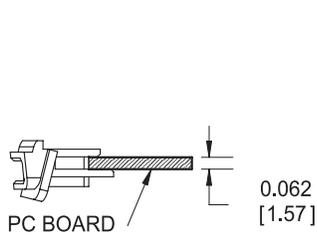
Docking Station Connectors



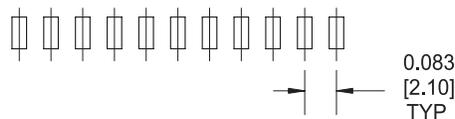
KS10/210APMST
Plug (Solder Cup)



KS10/210AEFDTABH
Receptacle (Surface Mount)



RECEPTACLE MOUNTING



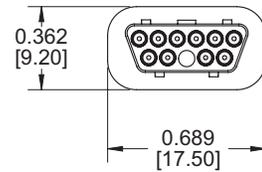
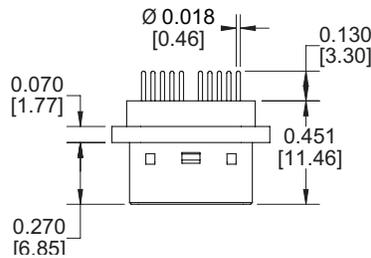
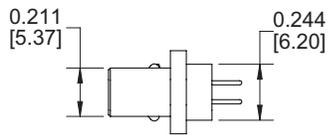
► **DUAL ROW**

Portable Device Connectors



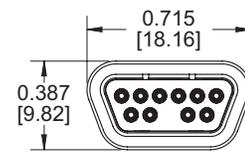
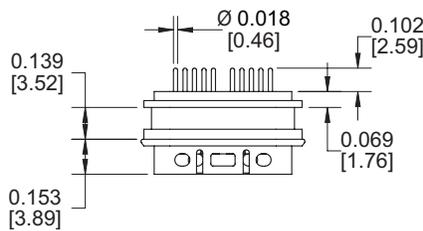
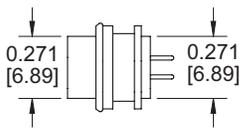
KS10/105BPMRT

Plug (Crimp for Back Molding)



KS10/105BEFDTABH

Receptacle (Straight Dip)



RECEPTACLE MOUNTING

