Control Circuits Connectors – Type SK Ordering Information and Specifications

Indoor, NEMA1, 20 Amp Load Breaking
250 Volts DC, 600 Volts AC (Max Rating)

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* Connectors – Both SKCU and SKC connectors will mate with standard service SKP plugs. SKC devices offer external shroud protection for female contacts. Both devices will lock with plug.

**Note:** Conduit Fittings: Plugs and connectors can be furnished with adapters to accommodate rigid conduit or standard connectors for armored and non-metallic cable or flexible conduit. See page 123. Special Construction: Press Control Lockout Dummy, Cat. #SKPD-

Specifications

**Receptacle Housing** – Furnished with neoprene gasket and 6-32 mounting screws.
- Type SKWR – Cast aluminum, corrosion-resistant copper-free alloy.
- Style SKR – heavy gauge steel, plated

**Plug Housing**
- Type SKP – Steel, zinc plated with heavy cast aluminum alloy cable clamp and cable bushing.
- Type SKWP – Cast aluminum, corrosion-resistant, copper-free alloy, epoxy powder coat finish. Furnished with heavy cast cable clamp and cable bushing.

**Connector Housing**
- Cast aluminum, corrosion-resistant, copper-free alloy, epoxy powder coat finish. Furnished with heavy cast cable clamp and cable bushing.

**Conduit Boxes** – cast boxes for above receptacles are listed on page 101. Type SK receptacles require FD series or DSFD box. Can be furnished with single gang outlet box at additional cost. When required, add suffix catalog number of box to catalog number of receptacle.

**Cable Bushing** – oil resistant, neoprene strain relief cable bushing regularly furnished with hole size as listed. Other hole sizes available at no extra cost if specified on order. See page 121 for additional sizes.

**Interiors** – contacts are removable and have pressure type terminals for 12 AWG wire maximum conductors.

**Insulating Bodies** – arc and impact-resisting mold composition.

**Contacts** – silver plated with fully insulated pressure screw-type terminals.

**Repair Kits** – Pins/Sleeves Repair – components for rebuild of 2-4 interiors

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This catalog has been divided into sections based on standard application groups. Each application group has been color-coded for your convenience. Below is a description of each of the six general categories Russellstoll products fall in. Applications are not limited to those listed below.

**Heavy Industrial / Marine Applications: Outdoor, Severe or High Abuse Environments**
- Industrial hook-ups
- Shore to ship power connections stations
- Portable generator sets
- Mills & process plants
- Agriculture
- Portable power connections
- Aerospace manufacturing and airports
- Lift stations
- Irrigation & wastewater equipment
- Industrial and shipyard welding
- Power distribution centers
- Job site power: For telephone power and communications equipment

**Washdown & Light Marine Applications: Watertight / Waterproof**
- Food processing plants
- Pharmaceutical manufacturing
- Bottling and beverage plants
- Barge and workboat applications
- Pulp & paper factories
- Outdoor construction sites

**Industrial and Commercial Applications**
- Entertainment (lighting & sound systems)
- Machinery
- Computer related equipment
- Welding installations
- Construction sites
- Facilities electrical power

**Control Circuit and Industrial / Interlock Applications**
- Automotive/Industrial Interlock systems were designed for the needs of the manufacturing industry. These devices are used where safety requirements mandate a mechanically interlocked system for connection and removal of plugs under full load.
- Automatic press
- Heavy duty portable welding
- Portable systems
- Machine tool control or Servo systems
- Shipyard maintenance power
- Battery chargers
- Automated welder applications
- Food processing
- Temporary power connections

**Hazardous Location Applications: Class I, Div. 1 / Class II, Div. 1**
- Aerospace
- Steel mills and mining
- Petroleum
- Chemical
- Food processing
- Waste treatment

**Computer Systems: Data Center and OEM Products**
- Raised Floor Applications
- Main Power Connections
- Critical power for test, instrumentation, telephone and medical equipment
**Russellstoll Control Circuits Connectors – Overview**

**Defined**
- Any application where electrical connections need protection from water and/or dust ingress to the contacts or the wiring compartment.
- Metal connectors are usually preferred for long service life.
- Cable or conduit sealing and device locking designs are critical.

**Russellstoll Line Selections for Indoor Applications**

**SK/SKW Multi-Pin Control Circuit to 11P12W 20A**

The toughest multi-circuit, screw-termination circular connector system; as SK indoor self locking or SKW outdoor collar locking; load breaking at 20 amps. Solid brass (silverplated) contacts ensure long life and interiors can be rebuilt. All pin-counts are available from 3P4W thru 11P12W, gasketed interiors in SKW.

**Switches 125 / 250VAC 10, 20 & 30A**

SPST and SPDT Tumbler Switches are offered in industrial and hazardous duty styles. Heavy duty Cu-free aluminum housings (brass available) around selected common ratings. Switches carry AC-only ratings (see Hazardous Duty section for explosion proof switches).

**Interlocks thru 4P5W 30 thru 400A**

A broad offering of performance interlocks in sheet steel, cast aluminum or brass. Automotive/Industrial welding units include 60 & 100A versions, both Heavy Service Ever-Lok and MaxGard lines. Switched, fused and circuit breaker versions are available, as well as switchgear selections. Custom enclosures wall-mount or column-mount in standard 8” I-Beam webs.

**Typical Application Groups**

**General Industrial/Marine**
- Lighting Systems
- Shore to Ship Power
- Welding Stations
- Portable Distribution Centers
- Shipboard Power Outlets
- Telephone Shore-Ship

**Construction & Agriculture**
- Generator Sets & Systems
- Portable Tools & Equipment
- Irrigation System Panels
- Portable Lighting & Equipment

**Government, Municipal & Utilities**
- Portable Building Power
- Army Corps of Engineers
- Utilities Panels
- Emergency Power Systems
- Sewage Pumping Stations
- Lighting & Controls

**Industrial & OEM**
- Factory Power Outlets
- HVACR Controls
- Machine Tool Controls
- Amusement Park Systems

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Russellstoll®

Control Circuits Connectors – Type SK & SKW Overview

20 Amp, 250 Volts AC or DC, 600 Volts AC Max. Rating
Load-Breaking Multi-Circuit Receptacles, Plugs, Connectors and Inlets

Features and Benefits

Type SK

Type SK Multi-Circuit Receptacles, Plugs Inlets and Connectors are designed for indoor or NEMA 1 Automatic Press, Tool Control and Welder applications requiring rugged, shock-resistant devices capable of safely interrupting rated currents under load.

Receptacles and connectors have neoprene gasket mounts and positive grounding path through separate contact. Equipment grounding contacts make first and break last. Wiring space is generous. Listed ratings are for interrupting currents under load.

The time-tested Ever-Lok automatic locking feature provides positive connections under the most severe conditions of shock and vibration. Yet, a twist of the wrist instantly disengages the plug when required.

Type SKW

Type SKW Multi-Circuit Receptacles, Plugs Inlets and Connectors are designed for outdoor NEMA 4, rough service and critical environment Machinery, HVACR systems, Servo Control and other automatic/controlled functions requiring rugged, shock-resistant devices capable of safely breaking rated loads. These watertight & oil-tight devices are equipment grounded with ground contacts that make first and break last. Wiring space is generous. Listed ratings are for full load interrupting currents.

Both series feature simple set-screw wiring termination in a circular connector with up to 11 pole 12 wire circuit capability. A wide selection of cable bushings can be specified upon ordering at no additional charge. Conduit adapters are also available for shielded or construction usage for both SK and SKW series.

Note: More than 12 circuits, miniature connectors or rectangular format. Ask about T&B Pos-E-Kon or Triad Lines.
Russellstoll®
Control Circuits Connectors – Type SK Dimensions

**Standard Service**

Female Receptacle – Style SKR

Male Plug – Style SKP

Note: All require FD or DSFD series box mounting.

**Reverse Service**

Male Receptacle – Style SKRR

Female Plug – Style SKCU (Non-shrouded connection)

**Connector**

Female Connector – Style SKC (shrouded style)

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