

# ACCLIMATE™

## RUGGED SEALED I/O SYSTEMS



### FEATURES & BENEFITS

- Meets IP68 & IP67 requirements for dust and waterproof sealing
- Ideal for high reliability in harsh environments
- Bayonet circulars in 12 mm, 16 mm and 22 mm shell sizes with choice of pin configuration and gender (ACX)
- Lightweight plastic mini push-pull system in a small form factor for increased panel density (MCP/MCR)
- Threaded sealed circular systems available with USB or Ethernet
- Rectangular systems offer a 25-45% panel area savings
- Rugged dust caps available

### KEY SPECIFICATIONS

SERIES	TYPE	INSULATOR MATERIAL	TERMINAL MATERIAL	CONTACT MATERIAL	OPERATING TEMP RANGE
ACP-12/ACR-12	Bayonet Circular	Thermoplastic	Brass	Brass/BeCu	-10 °C to +80 °C
ACP-16/ACR-16					-10 °C to +105 °C
ACP-22/ACR-22					-10 °C to +105 °C
MCP/MCR	Mini Push-Pull	PPS	Phosphor Bronze	Phosphor Bronze	-20 °C to +80 °C
BCU/BPCU/BRU	Threaded Circular	Thermoplastic	--	Copper Alloy	-40 °C to +80 °C
SCRUS/SCRES		PBT	--	Phosphor Bronze	-20 °C to +75 °C (SCRUS) -40 °C to +70 °C (SCRES)
RPBE/RPCE		Black LCP (RPBE)	--	Phosphor Bronze	-40 °C to +75 °C
RPBU/RPCU	Rectangular	Glass Filled Thermoplastic (RPCE)	--	Phosphor Bronze	-20 °C to +80 °C
		Black LCP	--	Phosphor Bronze	-20 °C to +80 °C

## IP68 SEALED BAYONET CIRCULAR - 12 mm SHELL



Series	Gender	Current Carrying Capacity	Housing	Web Address
ACP-12	Terminal	<div style="background-color: #cccccc; padding: 2px;">MAX</div> <div style="background-color: #cc0000; color: white; padding: 10px; text-align: center;"> <span style="font-size: 2em; font-weight: bold;">5.0</span>                      A m p s                 </div>	Metal or Plastic	samtec.com?acp-12
ACR-12	Socket			samtec.com?acr-12

Kitted components available for field assembly, visit [samtec.com/acpk-12](http://samtec.com/acpk-12) or [samtec.com/acrk-12](http://samtec.com/acrk-12)

## IP68 SEALED BAYONET CIRCULAR - 16 mm SHELL



Series	Gender	Current Carrying Capacity	Housing	Web Address
ACP-16	Terminal	<div style="background-color: #cccccc; padding: 2px;">MAX</div> <div style="background-color: #cc0000; color: white; padding: 10px; text-align: center;"> <span style="font-size: 2em; font-weight: bold;">11.6</span>                      A m p s                 </div>	Metal or Plastic	samtec.com?acp-16
ACR-16	Socket			samtec.com?acr-16

Kitted components available for field assembly, visit [samtec.com/acpk-16](http://samtec.com/acpk-16) or [samtec.com/acrk-16](http://samtec.com/acrk-16)

## IP68 SEALED BAYONET CIRCULAR - 22 mm SHELL



Series	Gender	Current Carrying Capacity	Housing	Web Address
ACP-22	Terminal	<div style="background-color: #cccccc; padding: 2px;">MAX</div> <div style="background-color: #cc0000; color: white; padding: 10px; text-align: center;"> <span style="font-size: 2em; font-weight: bold;">8.3</span>                      A m p s                 </div>	Metal or Plastic	samtec.com?acp-22
ACR-22	Socket			samtec.com?acr-22

Kitted components available for field assembly, visit [samtec.com/acpk-22](http://samtec.com/acpk-22) or [samtec.com/acrk-22](http://samtec.com/acrk-22)

## IP67 SEALED MINI PUSH-PULL - 8 SERIES



Series	Gender	Current Carrying Capacity	Housing	Web Address
MCP	Terminal	<div style="background-color: #cccccc; padding: 2px;">MAX</div> <div style="background-color: #cc0000; color: white; padding: 10px; text-align: center;"> <span style="font-size: 2em; font-weight: bold;">3.4</span>                      A m p s                 </div>	Plastic	samtec.com?mcp
MCR	Socket			samtec.com?mcr

Dust caps: DCA-MCR-8 and DCA-MCP-8

## IP67 THREADED CIRCULAR SYSTEM - USB TYPE C



Series	Gender	Current Carrying Capacity	Housing	Web Address
BCU	Terminal (Cable)	Supports 100 W power delivery (5 A @ 20 V)	Plastic	<a href="http://samtec.com?bcu">samtec.com?bcu</a>
BPCU	Socket (Cable)			<a href="http://samtec.com?bpcu">samtec.com?bpcu</a>
BRU	Socket (Board Mount)			<a href="http://samtec.com?bru">samtec.com?bru</a>

Dust cap: DCA-BRU-C-01

## IP68 SEALED THREADED CIRCULAR SYSTEM - USB TYPE A/B & ETHERNET



Series	Gender	Current Carrying Capacity	Housing	Mates With	Web Address
SCRUS	Socket (USB)	4.3 Amps MAX	Plastic	SCPU	<a href="http://samtec.com?scrus">samtec.com?scrus</a>
SCRES	Socket (Ethernet)	3.8 Amps MAX		SCPE	<a href="http://samtec.com?scres">samtec.com?scres</a>

Dust caps: DCA-17-03, DCA-17-01 and SCPPA-17-01 (panel plug)

## IP68 SEALED RECTANGULAR SYSTEM - ETHERNET



Series	Gender	Housing	Mates With	Web Address
RPBE	Socket	Plastic	RCE	<a href="http://samtec.com?rpbe">samtec.com?rpbe</a>
RPCE	Socket		RCE	<a href="http://samtec.com?rpce">samtec.com?rpce</a>

Dust caps: DCA-RPBE-01-01-P (no latch) and DCA-RPBE-XX-01-L (latching)

## IP68 SEALED RECTANGULAR SYSTEM - USB TYPE A/B



Series	Gender	Current Carrying Capacity	Housing	Mates With	Web Address
RPBU	Socket	4.5 Amps MAX	Plastic	RCU (Single Port Only)	<a href="http://samtec.com?rpbu">samtec.com?rpbu</a>
RPCU	Socket			RCU	<a href="http://samtec.com?rpcu">samtec.com?rpcu</a>

Dust caps: DCA-RPBU-XX-01-X