

# ACCLIMATE™

## RUGGED SEALED I/O SYSTEMS



### FEATURES & BENEFITS

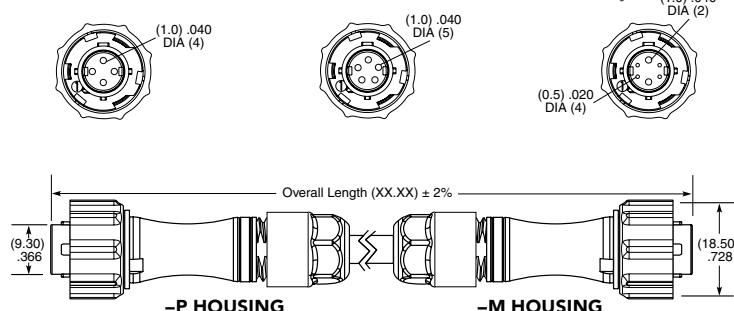
- Meets IP68 & IP67 requirements for dust and waterproof sealing
- Ideal for high reliability in harsh environments
- Bayonet circulars in 12 mm, 16 mm and 22 mm shell sizes with choice of pin configuration and gender (ACX)
- Lightweight plastic mini push-pull system in a small form factor for increased 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

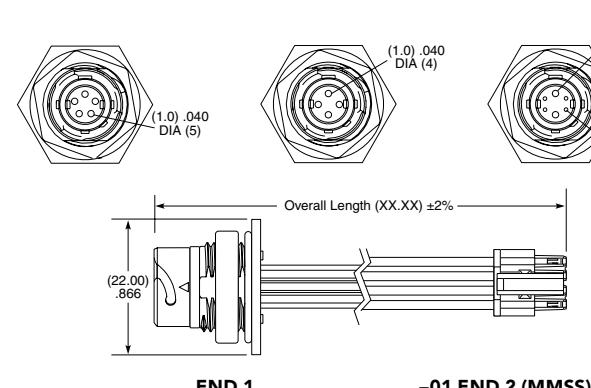
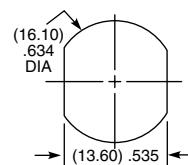
### KEY SPECIFICATIONS

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	Rectangular	Black LCP (RPBE) Glass Filled Thermoplastic (RPCE)	--	Phosphor Bronze	-40 °C to +75 °C
RPBU/RPCU		Black LCP	--	Phosphor Bronze	-20 °C to +80 °C

**12 mm • IP68 SEALED CABLE ASSEMBLY**

SERIES	12	LEAD STYLE	PLATING OPTION	LENGTH	END 1	END 2	HOUSING MATERIAL	KEYING OPTIONS
ACP Terminal		<b>-01</b> = 1.0 mm DIA (4) terminals or sockets (24 AWG)	<b>-G</b> = 10 $\mu$ " (0.25 $\mu$ m) Gold over 50 $\mu$ " (1.27 $\mu$ m) Ni on contact	<b>"XX.XX"</b> = Length in meters (00.25 m min. to 50.00 m max.) Standard lengths	<b>-T</b> = Terminal	<b>-T</b> = Terminal (ACP only)	<b>-P</b> = Plastic	<b>-1</b> = Orange, 45°
ACR Socket		<b>-02</b> = 1.0 mm DIA (5) terminals or sockets (24 AWG)			<b>-S</b> = Socket (N/A with End 2 -T)	<b>-S</b> = Socket (ACP only)	<b>-M</b> = Metal	
		<b>-05</b> = 1.0 mm DIA (2) terminals or sockets (24 AWG) + 0.5 mm DIA (4) terminals or sockets (28 AWG)				<b>-BC</b> = Blunt Cut	<b>-S1</b> = Connector determined by lead style. See chart for end 2 connector used. (ACR only)	

**ACP-12**
**End 1/2 Mates:**  
 ACR-12  
 ACRK-12

 View complete specifications at: [samtec.com?ACP-12](http://samtec.com?ACP-12)
**ACR-12**
**End 1 Mates:**  
 ACP-12  
 ACPK-12

**End 2 Mates:**  
 IPL1

**PANEL OPENING**


LEAD STYLE	-S1 END 2	MATES WITH -S1
-01	MMSS (24 AWG)	IPL1
-02	MMSS (24 AWG)	
-05	MMSS (24 AWG (2x), 28 AWG (4x))	

 View complete specifications at: [samtec.com?ACR-12](http://samtec.com?ACR-12)
**CURRENT RATING**

LEAD STYLE	PINS POWERED	CCC per PIN
-01	4	3.8 A
-02	5	3.6 A
-05	2 (plus 4 signal pins powered @ 1.2 A)	5.0 A

 For general reference only. Contact [AccliMate@samtec.com](mailto:AccliMate@samtec.com) for applications requiring higher current carrying capacity.

**Note:**

Some lengths, styles and options are non-standard, non-returnable.

**KITS AVAILABLE**
[www.samtec.com?ACPK-12](http://www.samtec.com?ACPK-12)  
[www.samtec.com?ACRK-12](http://www.samtec.com?ACRK-12)