

# 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

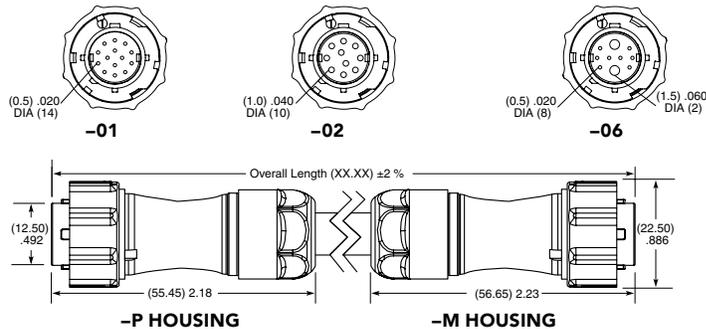
SERIES	TYPE	INSULATOR MATERIAL	TERMINAL MATERIAL	CONTACT MATERIAL	OPERATING TEMP RANGE
ACP-12/ACR-12	Bayonet Circular	Thermoplastic	Brass	Brass/BeCu	-10 °C to +80 °C
ACP-16/ACR-16					-10 °C to +105 °C
ACP-22/ACR-22					-10 °C to +105 °C
MCP/MCR	Mini Push-Pull	PPS	Phosphor Bronze	Phosphor Bronze	-20 °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

# ACCLIMATE™

## 16 mm • IP68 SEALED CABLE ASSEMBLY

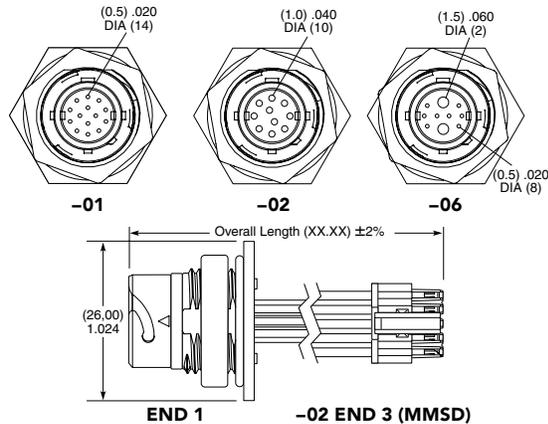
SERIES	16	LEAD STYLE	PLATING OPTION	LENGTH	END 1	END 2	HOUSING MATERIAL	KEYING OPTIONS
ACP Terminal		<b>-01</b> = 0.5 mm DIA (14) terminals or sockets (28 AWG)	<b>-G</b> = 10 μ" (0.25 μm) Gold over 50 μ" (1.27 μm) Ni on contact	<b>-"XX.XX"</b> = Length in meters (00.25 m min. to 50.00 m max.) Standard 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 (10) 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>-06</b> = 1.5 mm DIA (2) terminals or sockets (16 AWG) + 0.5 mm DIA (8) terminals or sockets (28 AWG)				<b>-BC</b> = Blunt Cut		
						<b>-S1</b> = Connector determine by lead style. See chart for end 2 connector used. (ACR only)		

**ACP-16**  
End 1/2 Mates:  
ACP-16  
ACR-16  
ACRK-16

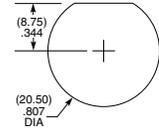


View complete specifications at: [samtec.com?ACP-16](http://samtec.com?ACP-16)

**ACR-16**  
End 1 Mates:  
ACP-16  
ACPK-16



### PANEL OPENING



LEAD STYLE	-S1 END 2	MATES WITH -S1
-01	SFSD (28 AWG)	TFM
-02	MMSD (24 AWG)	IPL1
-06	1 x SFSD (28 AWG)	TFM
	1 x MPSS (16 AWG)	MPT

View complete specifications at: [samtec.com?ACR-16](http://samtec.com?ACR-16)

### CURRENT RATING

LEAD STYLE	PINS POWERED	CCC per PIN
-01	14	1.3 A
-02	10	2.6 A
-06	2 (plus 8 signal pins powered @ 1 A)	11.6 A

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

### KITS AVAILABLE

[www.samtec.com?ACPK-16](http://www.samtec.com?ACPK-16)  
[www.samtec.com?ACRK-16](http://www.samtec.com?ACRK-16)

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