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
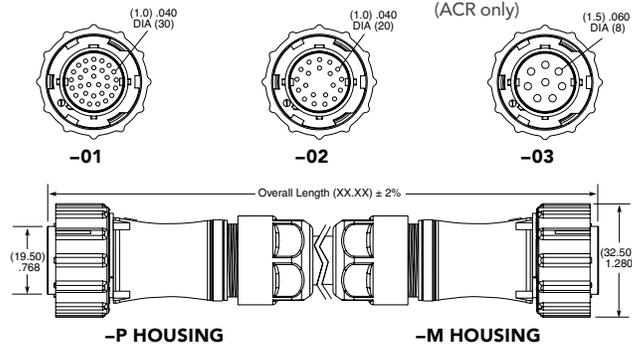- Rugged dust caps available

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

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SERIES	–	22	LEAD STYLE	–	PLATING OPTION	–	LENGTH	–	END 1	–	END 2	–	HOUSING MATERIAL	–	KEYING OPTIONS

ACP
Terminal

ACR
Socket

–01
= 1.0 mm DIA (30) terminals or sockets (24 AWG)

–02
= 1.0 mm DIA (20) terminals or sockets (24 AWG)

–03
= 1.5 mm DIA (8) terminals or sockets (16 AWG)

–G
= 10 µ" (0.25 µm) Gold over 50 µ" (1.27 µm) Ni on contact

–"XX.XX"
= Length in meters (00.25 m min. to 50.00 m max.)

Standard lengths

–T
= Terminal

–S
= Socket

–T
= Terminal (ACP only)

–S
= Socket (ACP only)

–BC
= Blunt Cut

–S1
= Connector determine by lead style. See chart for end 2 connector used. (ACR only)

–P
= Plastic

–M
= Metal

–1
= Orange, 45°

ACP-22

End 1/2 Mates:
ACR-22
ACRK-22

(1.0) .040 DIA (30) **–01**

(1.0) .040 DIA (20) **–02**

(1.5) .060 DIA (8) **–03**

Overall Length (XX.XX) ± 2%

(19.50) .768

(32.50) 1.280

–P HOUSING   **–M HOUSING**

View complete specifications at: **samtec.com?ACP-22**

ACR-22

End 1 Mates:
ACP-22
ACPK-22

End 2 Mates:
IPL1, MPT

(1.0) .040 DIA (30) **–01**

(1.0) .040 DIA (20) **–02**

(1.5) .060 DIA (8) **–03**

Overall Length = (XX.XX) ± 2%

(33.00) 1.299

–01 END   **–01 END 2 (MMSD)**

View complete specifications at: **samtec.com?ACR-22**

PANEL OPENING

(12.25) .482

(27.50) 1.08 DIA
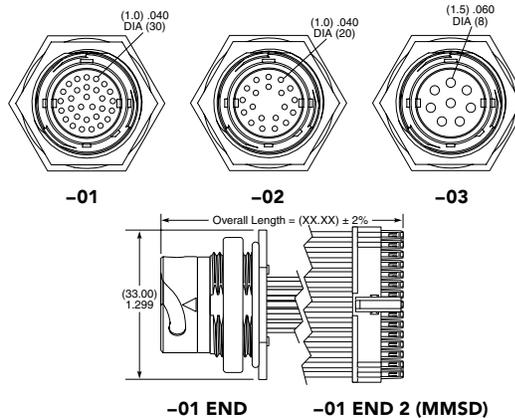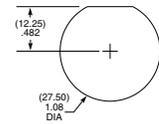
LEAD STYLE	–S1 END 2	MATES WITH –S1
–01	MMSD (24 AWG)	IPL1
–02		
–03	MPSS (16 AWG	MPT

CURRENT RATING

LEAD STYLE	PINS POWERED	CCC per PIN
–01	30	2.0 A
–02	20	2.3 A
–03	8	8.3 A

For general reference only. Contact AccliMate@samtec.com for applications requiring higher current carrying capacity.

KITS AVAILABLE

www.samtec.com?ACPK-22
www.samtec.com?ACRK-22

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