annon has re-introduced the widely used MS A&B product line with improved features. For corrosion protection we have changed the shell finish to an environmentally safe, zinc alloy plating. The plating is a high quality finish and uniform in color. The contacts, which are preloaded in the insulator, have been redesigned such that the solder cups remain in proper orientation and will not rotate during wiring termination. The contacts are also machined for strength and durability and plated with silver. The Cannon MS A&B design meets the performance requirements of the MIL-C-5015. The product is available in all the popular sizes and configurations in Class A (solid end bell) and Class B (split end bell versions).

Applications:

- Industrial Controls
- Test Equipment
- Traffic Signals
- Bus Systems

Product Features and Benefits

- High strength aluminum alloy connector
- High strength plastic insulators
- Environmentally safe shell finishes

Performance Specifications

_	Protoctod	against	corrocion
•	Protected	against	corrosion

- High quality plating finish
- Threaded coupling

- Product is tooled and available in 50 insert patterns
- Machined contacts
- Low cost

Temperature Range:	–55°C to 125°C (-67°F to 257°F)				
Current Rating:	13 A to 150 A*				
Durability:	500 mating cycles min.				
Wire Accommodation:	0 to 20 AWG* 2 to 48 Solder				
No. of Contacts:					
Termination:					
	*Depending on contact size.				
Materials and Finishes					
Description	Material	Finish			
Shell	Aluminum Alloy	Green Zinc or Black Zinc			
Insulator	Hard Plastic	_			
Contact	Brass or Copper Alloy	Silver			

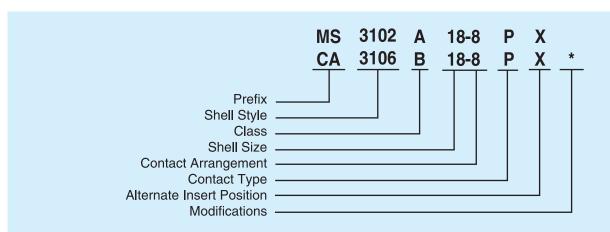


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Dimensions are shown in mm (inch) Dimensions subject to change WWW.DataSheet4U.com WWW.Ittcannon.com



How to Order



SERIES PREFIX

- MS Complies with Military Specification MIL-C-5015
- CA Cannon prefix indicating special application or variation of MS
- SHELL STYLE
- 3100 Wall Mounting Receptacle (A version only)
- 3101 Cord Connector Plug (A version only)
- 3102 Box Mounting Receptacle
- 3106 Straight Plug
- 3108 90° Angle Plug (B version only)

Accessories

- CLASS A – Solid or one-piece endbell B – Split or two-piece endbell
- SHELL SIZE Coupling thread diameter in sixteenths of an inch
- CONTACT ARRANGEMENTS Refer to page 3

CONTACT TYPE

P – Pin

S – Socket

ALTERNATE INSERT POSITIONS

Refer to page 4

MODIFICATIONS Contact Cannon for other options.

For more information, please contact your local Cannon sales office.

Cable clamps are available in both the environmentally safe green zinc and black zinc, and will accommodate shell sizes 10SL-36. Double clamping action provides a balanced, positive hold on the wires and greatly reduces moisture transmission, a real benefit in applications that require environmental sealing. This clamp is provided with the bushing.

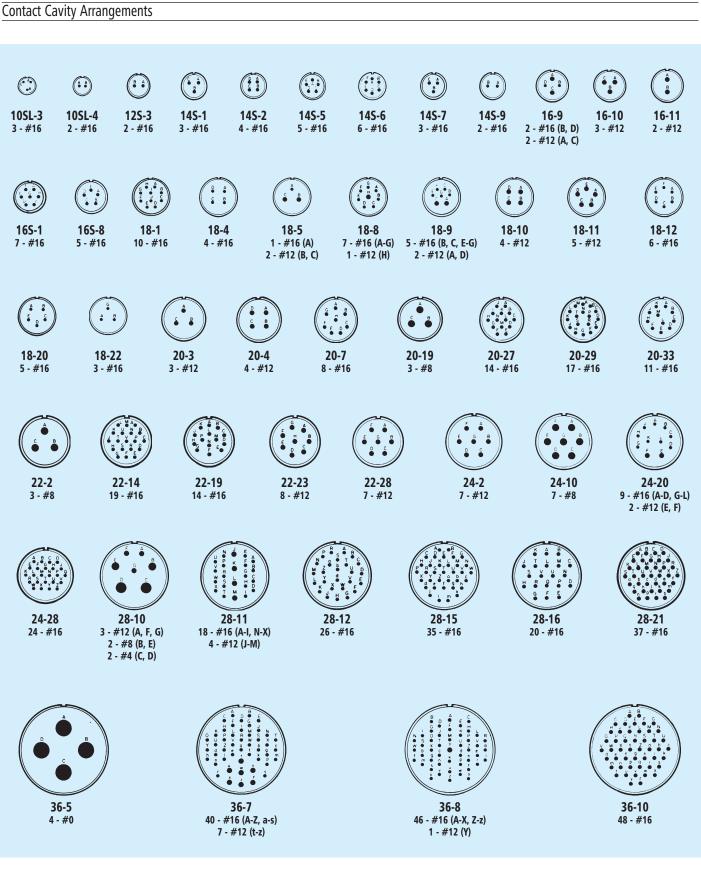
Shell Size	Part Number Green Zinc	Part Number Black Zinc
10SL, 12S	CA17711-111	CA17711-103
145	CA17711-112	CA17711-104
16S, 16	CA17711-113	CA17711-101
18	CA17711-114	CA17711-102
20, 22	CA17711-115	CA17711-22
24, 28	CA17711-116	CA17711-105
32	CA17711-117	CA17711-106
36	CA17711-118	CA17711-107





2

CA/MS A&B



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Dimensions are shown in mm (inch) Dimensions subject to change WW.DataSheet4U.com Wvvvv.ittcannon.com

Y°

256

215

250

250

_

250

250

250

250

270

250

250

240

250

250

235

Z°

280

325

290

280

280

280

280

280

280

280

280

280

280

280

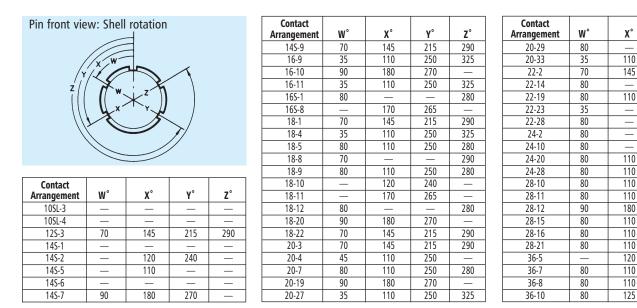
280

280

280

280

Alternate Insert Positions



Assembly Instructions



Unassembled connectors are supplied in kits, an insulator kit and hardware kit. The insulator kit includes a snap ring and insulator with preloaded contacts. The hardware kit includes the shell along with appropriate endbell (except box mount receptacles) and coupling nut (plug only).



Step 1*: Remove tape from insulator. With the insulator and shell positioned as shown above, polarize insulator to desired position and place inside shell using the internal keyway as guide. Once inside the shell, the insulator cannot rotate. However, until the snap ring is applied in step 2, the insulator is not captivated in the shell.



Step 2: After insulator is seated in shell, install the snap ring on the rear of the connector. Slightly compress ring and insert into recessed area just above the insulator. If not completely in place, manipulate the snap ring with finger until visual or audible seating confirmation is made. No tooling is required.



Step 3: Confirm insulator is fixed inside shell by applying slight force on the engaging side of the insulator. If properly installed, the insulator can not be pushed out the rear of the shell. If the insulator is displaced with this test, please repeat steps 1 and 2.



Step 4: Complete assembly by adding coupling nut and endbell. Please note that the coupling nut is used on the plug side only.

*Note: During installation, ensure that all contacts remain fixed. If during this process the contacts rotate out of position, separate the 2 piece insulator and adjust accordingly.



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Industrial Connectors CA/MS A&B







