

MIL-DTL-5015 Mil-Spec Connectors

Part Number :

MS3101A20-27S

Client Order no.:

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :



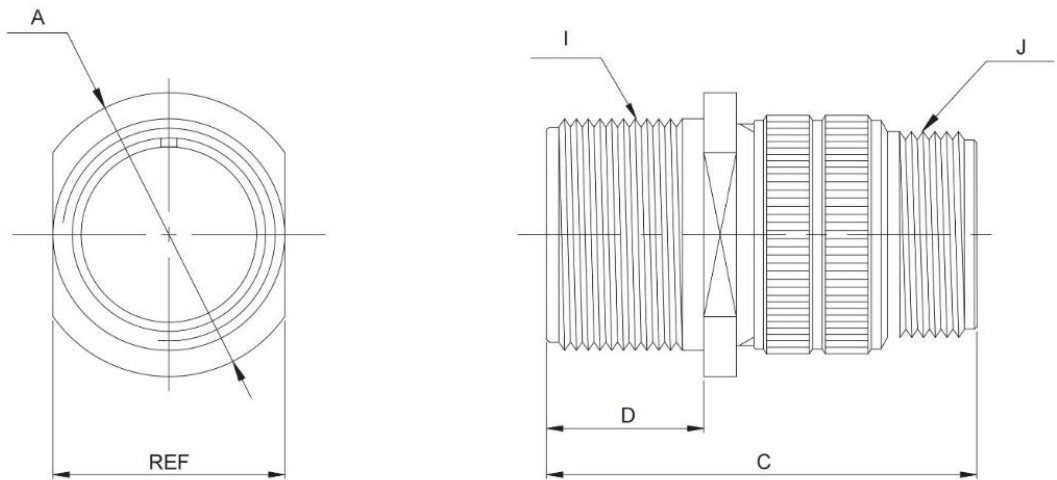
Basic Information

Product Type:	MIL-DTL-5015 series Mil Spec Circular Connector
Series:	MS3101A cable connecting plug
Connector Type:	Plug
Orientation:	Straight
Contact Type:	Socket Contacts
Number of Contacts:	14 Contacts
Contact Termination:	Solder Cup
Shell sizes:	20
Contact Arrangement:	20-27
Coupling Method:	Threaded
Mount Method:	Cable Mounting
Mount Feature:	Not Applicable
Wire Gauge:	20-16AWG
Durability:	500 Cycles
Alternate Position:	N - Normal
Shielding performance:	Unshielded
Temperature range:	-55°C to + 125°C
Protection degree:	IP67

Materials and Plating	
Shell Material:	Aluminum Alloy
Shell Plating:	Olive Drab Cadmium
Contact Material:	Copper Alloy
Contact Plating:	Silver Plating
Insulator Material:	Hard Plastic

Electrical Performance	
Rated voltage:	500V
Rated current:	15A
Insulation Resistance:	5,000 Mega ohms minimum (at 25°C)
Contact resistance:	< 10 mΩ

MS3101A Sizes



MS3101A solid endbell cable connecting receptacles are used for cable extension requirements where mounting provisions are unnecessary.

(mm)

Shell Size	Ø A Max	C Max	D +0.79 -0.00	I Thread-2A (UNEF)	J Thread-2A (UNEF)
10SL	24.61	38.88	14.28	5/8-24 NEF	5/8-24 NEF
12S	26.97	42.87	14.28	3/4-20 NEF	5/8-24 NEF
12	26.97	52.37	19.05	3/4-20 NEF	5/8-24 NEF
14S	29.36	42.87	14.28	7/8-20 NEF	3/4-20 NEF
14	29.36	52.37	19.05	7/8-20 NEF	3/4-20 NEF
16S	31.75	42.87	14.28	1-20 NEF	7/8-20 NEF
16	31.75	52.37	19.05	1-20 NEF	7/8-20 NEF
18	34.13	52.37	19.05	1 1/8-18 NEF	1-20 NEF
20	37.31	55.57	19.05	1 1/4-18 NEF	1 3/16-18 NEF
22	40.48	55.57	19.05	1 3/8-18 NEF	1 3/16-18 NEF
24	43.66	58.72	20.63	1 1/2-18 NEF	1 7/16-18 NEF
28	50.01	58.72	20.63	1 3/4-18 NS	1 7/16-18 NEF
32	56.36	67.92	22.23	2-18 NS	1 3/4-18 NS
36	62.71	67.92	22.23	2 1/4-16 UN	2-18 NS

How to Order

Part Number Example	MS	3102	A	18	-10	P	W	XXX
Connector Type:								
MS - designates Military Standard								
DS - Europe use								
Connector Style								
3100 - wall mounting receptacle								
3101 - cable connecting plug								
3102 - box mounting receptacle								
3106 - straight plug								
3108 - 90° Right angle plug								
Service Class:								
A - General purpose, Solid Endbell								
E - Environmental resisting, with grommet seal & strain relief back shell								
F - Environmental resistance with grommet seal & strain relief back shell, 3106F, and 3108E style include a front 'O' ring seal								
R - Environmental resisting with grommet seal, lightweight and shorter, overall length 310R style includes a front 'O' ring seal								
Shell Size: 10SL/12S/14S/16S/16/18/20/22/24/28/32/36								
Insert Arrangement: (See catalog)								
Contact Types:								
P - designates pin contact, (+) Male								
S - designates socket contact, (-) Female								
Insert Rotation: (See catalog)								
Plating Information:								
No suffix - Olive Drab Zinc								
CD - Cadmium								
C1 - Cobalt (Without +6 Cr)								
621 - Black Zinc								
689 - Electro-less Nickel								
426 - Electro-less Nickel & gold flash contacts								

Learn more about this connector on [Metabee's MIL-DTL-5015 connector catalog](#).