

MS/STANDARD

CRIMP REAR RELEASE CONTACTS

Contact Size	Wire Range		Socket Contacts		Pin Contacts	
	AWG	mm ²	Military Part Number	Amphenol/Matrix Part Number	Military Part Number	Amphenol/Matrix Part Number
16S*	20-16	0.5-1.4	M39029/30-217	M5100-033-1601L	M39029/29-212	M5000-029-0016L
16	20-16	0.5-1.4	M39029/30-218	M5100-033-1602L	M39029/29-212	M5000-029-0016L
12	14-12	2-3	M39029/30-219	M5100-033-0012	M39029/29-213	M5000-029-0012
8	10-8†	5-8.5	M39029/30-220	M5100-033-0008	M39029/29-214	M5000-029-0008
4	6-4†	13-21	M39029/30-221	M5100-033-0004	M39029/29-215	M5000-029-0004
0	2-0†	34-60	M39029/30-222	M5100-033-0000	M39029/29-216	M5000-029-0000

* Shorter wire barrel

Note: For information on thermocouple contacts, consult Amphenol Aerospace

† Use MS3348 bushing kit to accommodate smaller wire.

CONTACT CURRENT RATING AND RETENTION

Contact Size**	Current Rating		Contact Retention	
	Amperes Max.	Voltage Drop Millivolts	Axial Load	
			lb.	N
16	13	50	25	111.2
12	23	50	30	133.4
8	46	25	50	222.4
4	80	14	60	266.9
0	150	12	75	333.6

** Organize individual circuits to maintain heat rise within operating temperature requirements.

SEALING PLUGS

Contact Size	Sealing Plugs	
	Military Part Number	Amphenol/Matrix Part Number
16S	MS27488-16-3	10-405996-163
16	MS27488-16-3	10-405996-163
12	MS27488-12-3	10-405996-123
8	MS27488-8-3	10-405996-083
4	MS27488-4-3	10-405996-043
0	MS27488-0-3	10-405996-003

CRIMPING TOOLS

Contact Size	Wire Range		Finished Wire Dia. Range		Color Code	Crimping Tool Part Number	Turret or Positioner Part Number
	AWG	mm ²	Inch	mm			
16S	20-16	0.5-1.4	.053-.103	1.34-2.62	Red/White	M22520/1-01	M22520/1-02
16	20-16	0.5-1.4	.053-.103	1.34-2.62	Blue/White	M22520/1-01	M22520/1-02
12	14-12	2-3	.085-.158	2.15-4.01	Yell./White	M22520/1-01	M22520/1-02
8	10-8	5-8.5	.132-.255	3.35-6.48	White/Red	M22520/23-01	M22520/23-02
4	6-4	13-21	.237-.370	6.01-9.40	White/Blue	M22520/23-01	M22520/23-04
0	2-0	34-60	.360-.550	9.14-13.97	White/Yell.	M22520/23-01	M22520/23-05

INSERTION/REMOVAL TOOLS

Contact Size	Color Code	Military Part Number	Amphenol/Matrix Part Number
16	Blue/White	M81969/14-03	10-538988-016
12	Yellow/White	M81969/14-04	10-538988-012
8	Red	M81969/14-06	6500-018-0008
4	Blue	M81969/14-07	6500-018-0004
0	Yellow	M81969/14-08	6500-018-0000

Amphenol installation instructions, L-2106, gives information on insertion, removal and crimping of contacts for Matrix MIL-DTL-5015 connectors.

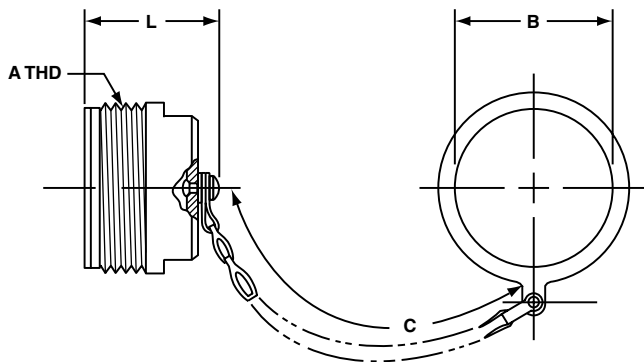
BACKSHELLS

The section of this catalog called "Backshells" covers the backshells for MIL-DTL-5015 that are provided through Amphenol PCD.

Please refer to this section for:

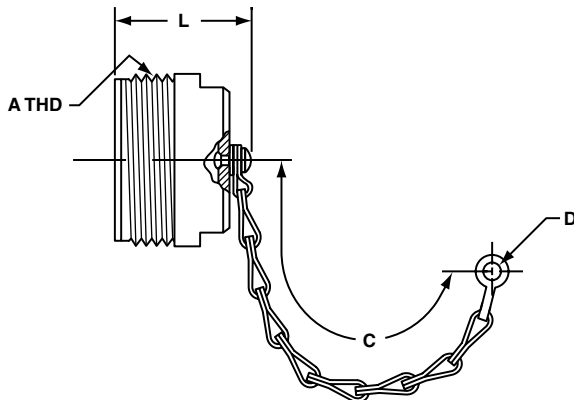
- Backshells for Connector Family "J", which includes MIL-DTL-26482 (Series II), MIL-DTL-5015 (MS3400), MIL-DTL-83723 (Series I & III).

PLUG PROTECTION CAP 10-329393-XX*



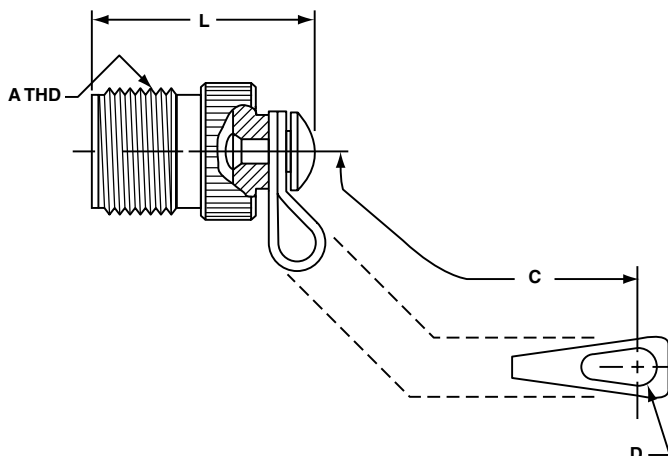
Assembly Number	A Thread Class 2A	B Dia. +.010 –.000	C Approx.	L Max.
10-329393-10	.625-24UNEF	.641	3.5	1.312
10-329393-11	.625-24UNEF	.641	3.5	1.312
10-329393-12	.750-20UNEF	.766	3.5	1.500
10-329393-14	.875-20UNEF	.891	3.5	1.500
10-329393-16	1.000-20UNEF	1.016	3.5	1.500
10-329393-18	1.125-18UNEF	1.141	3.5	1.500
10-329393-20	1.250-18UNEF	1.266	4.0	1.500
10-329393-22	1.375-18UNEF	1.391	4.0	1.500
10-329393-24	1.500-18UNEF	1.641	4.5	1.500
10-329393-28	1.750-18UNS	1.891	4.5	1.500
10-329393-32	2.000-18UNS	2.078	5.0	1.500
10-329393-36	2.250-16UN	2.328	5.0	1.500
10-329393-40	2.500-16UN	2.641	5.0	1.500
10-329393-44	2.750-16UN	2.891	6.0	1.500

PLUG PROTECTION CAP 10-229125-XX*



Assembly Number	A Thread Class 2A	C Approx.	D Ref.	L Max.
10-229125-10	.625-24NEF	3.0	.140	1.233
10-229125-12	.750-20UNEF	3.5	.140	1.421
10-229125-14	.875-20UNEF	3.5	.140	1.421
10-229125-16	1.000-20UNEF	3.5	.140	1.421
10-229125-18	1.125-18NEF	3.5	.140	1.421
10-229125-20	1.250-18NEF	3.5	.193	1.421
10-229125-22	1.375-18NEF	3.5	.193	1.421
10-229125-24	1.500-18NEF	4.5	.193	1.421
10-229125-28	1.750-18NS	4.5	.193	1.421
10-229125-32	2.000-18NS	5.0	.193	1.421
10-229125-36	2.250-16UN	5.0	.193	1.421
10-229125-40	2.500-16UN	5.0	.193	1.421

PLUG PROTECTION CAP MS25042-XXDA*



MS Number	A Thread Class 2A	B Dia. +.010 –.005	C Approx.	L Max.
MS25042-8DA	.500-28UNEF	.156	4.00	.969
MS25042-10DA	.625-24UNEF	.156	4.00	.969
MS25042-12DA	.750-20UNEF	.156	4.50	1.156
MS25042-14DA	.875-20UNEF	.156	4.50	1.156
MS25042-16DA	1.000-20UNEF	.156	4.50	1.156
MS25042-18DA	1.125-18UNEF	.156	4.50	1.156
MS25042-20DA	1.250-18UNEF	.187	5.00	1.156
MS25042-22DA	1.375-18UNEF	.187	5.00	1.156
MS25042-24DA	1.500-18UNEF	.187	5.50	1.156
MS25042-28DA	1.750-18UNS	.187	7.75	1.156
MS25042-32DA	2.000-18UNS	.218	7.75	1.156
MS25042-36DA	2.250-16UN	.218	7.75	1.156
MS25042-40DA	2.500-16UN	.218	7.75	1.156

* Protective caps are illustrated with sash chains and are available with beaded chains or without chains. Optional terminations are also available. Consult Amphenol Aerospace when ordering.

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient
26482
Matrix 2
83723 III
Matrix | Pyle
26500
Pyle

5015
Crimp Rear
Release
Matrix
22992
Class L
Back-
Shells
Options
Others

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix Pyle

26500
Pyle

5015
Crimp Rear Release
Matrix

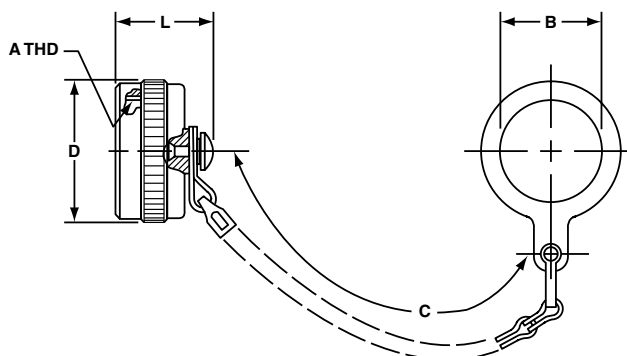
22992
Class L

Back-
Shells

Options
Others

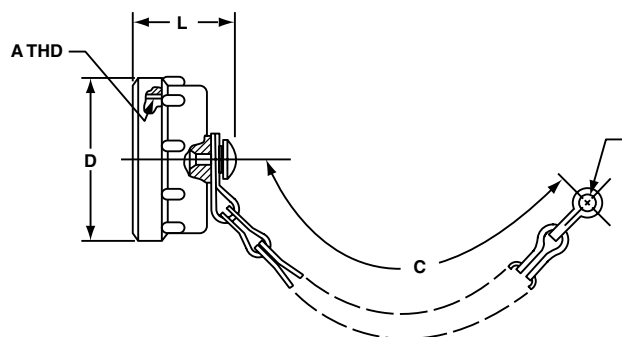
Assembly Number	A Thread Class 2B	B Dia. Min.	C Approx.	D Dia. Max.	L Max.
10-329394-10	.625-24UNEF	.641	3.5	.875	.793
10-329394-12	.750-20UNEF	.766	3.5	1.000	.793
10-329394-14	.875-20UNEF	.891	3.5	1.125	.793
10-329394-16	1.000-20UNEF	1.016	3.5	1.250	.793
10-329394-18	1.125-18UNEF	1.141	3.5	1.375	1.024
10-329394-20	1.250-18UNEF	1.266	4.0	1.500	1.024
10-329394-22	1.375-18UNEF	1.391	4.0	1.625	1.024
10-329394-24	1.500-18UNEF	1.641	4.5	1.750	1.024
10-329394-28	1.750-18UNS	1.891	4.5	2.000	1.024
10-329394-32	2.000-18UNS	2.078	5.0	2.250	1.024
10-329394-36	2.250-16UN	2.328	5.0	2.500	1.024
10-329394-40	2.500-16UN	2.641	5.0	2.656	1.024
10-329394-44	2.750-16UN	2.891	6.0	2.938	1.024

RECEPTACLE PROTECTION CAP 10-329394-XX*



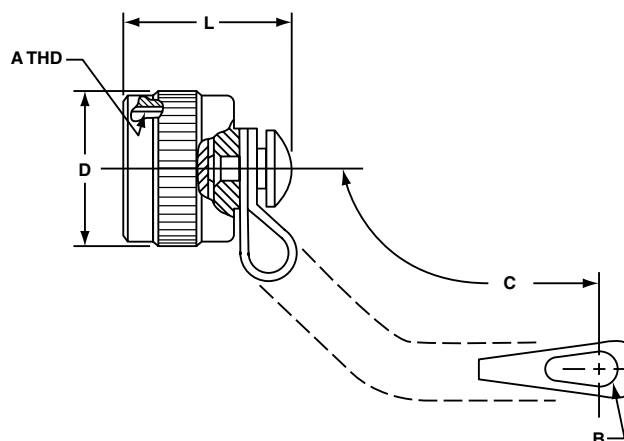
Assembly Number	A Thread Class 2B	B Ref.	C Approx.	D Dia. Max.	L Max.
10-422905-103	.625-24UNEF	.140	3.0	.875	.812
10-422905-123	.750-20UNEF	.140	3.5	1.000	.812
10-422905-143	.875-20UNEF	.140	3.5	1.125	.812
10-422905-163	1.000-20UNEF	.140	3.5	1.250	.812
10-422905-183	1.125-18UNEF	.193	3.5	1.375	1.031
10-422905-203	1.250-18UNEF	.193	4.0	1.500	1.031
10-422905-223	1.375-18UNEF	.193	4.0	1.625	1.031
10-422905-243	1.500-18UNEF	.193	4.5	1.750	1.031
10-422905-283	1.750-18UNS	.193	4.5	2.000	1.031
10-422905-323	2.000-18UNS	.193	5.0	2.250	1.031
10-422905-363	2.250-16UN	.193	5.0	2.500	1.031
10-422905-403	2.500-16UN	.193	5.0	2.656	1.031

RECEPTACLE PROTECTION CAP 10-422905-XXX*



MS Number	A Thread Class 2B	B +.010 - .005	C Approx.	D Dia. Max.	L Max.
MS25043-8DA	.500-28UNEF	.140	4.00	.688	.750
MS25043-10DA	.625-24UNEF	.140	4.00	.815	.750
MS25043-12DA	.750-20UNEF	.140	4.50	1.000	.750
MS25043-14DA	.875-20UNEF	.140	4.50	1.125	.750
MS25043-16DA	1.000-20UNEF	.140	4.50	1.188	.750
MS25043-18DA	1.125-18UNEF	.140	4.50	1.344	.750
MS25043-20DA	1.250-18UNEF	.140	5.00	1.469	.750
MS25043-22DA	1.375-18UNEF	.140	5.00	1.594	.750
MS25043-24DA	1.500-18UNEF	.171	5.50	1.719	.750
MS25043-28DA	1.750-18UNS	.171	7.75	1.969	.812
MS25043-32DA	2.000-18UNS	.187	7.75	2.219	.812
MS25043-36DA	2.250-16UN	.187	7.75	2.469	.812
MS25043-40DA	2.500-16UN	.187	7.75	2.719	.812

RECEPTACLE PROTECTION CAP MS25043-XXDA*



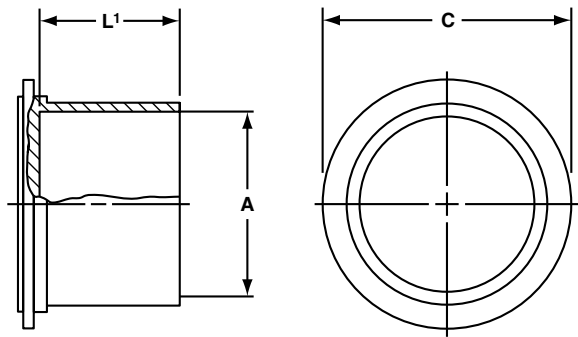
* Protective caps are illustrated with sash chains and are available with beaded chains or without chains. Optional terminations are also available. Consult Amphenol Aerospace when ordering.

MIL-DTL-5015 Accessories

Dust Caps

10-70500 RECEPTACLE DUST CAP

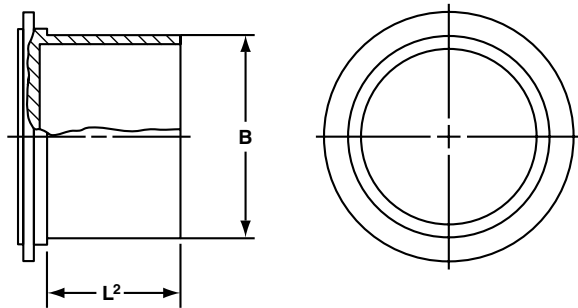
for external threads



MS Shell Size	Order Number	A Dia. Nominal Thread	C Dia. $\pm .031$	L ¹ $\pm .062$
8S	10-70500-8	.500	.750	.500
10S	10-70500-10	.625	.875	.500
10SL	10-70500-10	.625	.875	.500
12S	10-70500-12	.750	1.000	.500
12	10-70500-12	.750	1.000	.500
14S	10-70500-14	.875	1.125	.500
14	10-70500-14	.875	1.125	.500
16S	10-70500-16	1.000	1.250	.500
16	10-70500-16	1.000	1.250	.500
18	10-70500-18	1.125	1.375	.562
20	10-70500-20	1.250	1.500	.562
22	10-70500-22	1.375	1.625	.562
24	10-70500-24	1.500	1.750	.562
28	10-70500-28	1.750	1.938	.562
32	10-70500-32	2.000	2.250	.562
36	10-70500-36	2.250	2.500	.625
40	10-70500-40	2.500	2.750	.625

10-70506 PLUG DUST CAP

for internal threads



MS Shell Size	Order Number	B Dia. Min.	L ² $\pm .125$
8S	10-70506-8S	.469	.625
10S	10-70506-10S	.587	.625
10SL	10-70506-10S	.587	.625
12S	10-70506-12	.704	.625
12	10-70506-12	.704	.625
14S	10-70506-14	.828	.625
14	10-70506-14	.828	.625
16S	10-70506-16	.953	.625
16	10-70506-16	.953	.625
18	10-70506-18	1.072	.625
20	10-70506-20	1.197	.625
22	10-70506-22	1.322	.625
24	10-70506-24	1.447	.625
28	10-70506-28	1.697	.625
32	10-70506-32	1.947	.625
36	10-70506-36	2.190	.625
40	10-70506-40	2.440	.625

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH
SPEED

Fiber
Optics

Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class L

Back-
Shells

Options
Others