

# Accessories – Contact Terminating Tools

## For MIL-DTL-26500 Connectors



38999

### Contact Insertion Tools



Contact Size	Insertion Tool			Insertion Tool Replacement Tip & Pin	
	Amphenol/ Pyle No.	Mil. No.	Color Code	Amphenol/ Pyle No.	Mil. No.
20	ZZL-R-9510-A-20	MIL-I-81969/17-9	Red	ZZL-R-9531-A-20	-
16	ZZL-R-9510-16	MIL-I-81969/17-4	Blue	ZZL-R-9531-16	-
12	ZZL-R-9510-12	MIL-I-81969/17-5	Yellow	ZZL-R-9531-12	-

### Contact Removal Tools



Contact Size	Removal Tool			Removal Tool Replacement Tip	
	Amphenol/ Pyle No.	Mil. No.	Color Code	Amphenol/ Pyle No.	Mil. No.
20	ZZL-R-9511-20	MS-24256-R-20	Red	ZZL-R-9557-20	-
16	ZZL-R-9511-16	MS-24256-R-16	Blue	ZZL-R-9557-16	-
12	ZZL-R-9511-12	MS-24256-R-12	Yellow	ZZL-R-9557-12	-

### Contact Crimping Tools



Contact Size	Crimping Tool with Indenters		Adjustable Turret		Checking Gage for Crimping Tool	
	Amphenol/ Pyle No.	Mil. No.	Amphenol/ Pyle No.	Mil. No.	Amphenol/ Pyle No.	Mil. No.
20	TP-201354	M22520/1-01 (Class 1)	TP-201355	M22520/1-02 (Class 1)	TP-201356	M22520/3
16						
12						

### Contact Termination

Use table below to determine correct wire stripping length for your wire sizes. When stripping the wire, avoid nicking wires or damaging insulation, as it is a functional part of the sealing system.

Contact Size	Wire Size	Stripping Length
20	20 to 24	.170" – .201"
16	16 to 18	.207" – .238"
12	12 to 14	.207" – .238"

See pages 425 and 426 for assembly instructions for proper contact termination and contact insertion/removal.

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- 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 1

- Back-Shell's

- Options
- Others

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### Crimping Tools for Shielded Contacts

Amphenol Tool 357-100



Amphenol Tool 294-529 or 294-528



Shielded Contact Size	For Crimping Center Contact		For Crimping Outer Ferrule	
	Basic Crimp Tool	Contact Positioner	Basic Crimp Tool (Hex dies included)	Hex Dimension
# 1 Shielded	357-100	294-1631	294-529	.128 Hex
# 2 Shielded		294-1630	294-528	.160 Hex

### Contact Insertion Tools



Contact Size	Amphenol Part No.	Military Part No.
20	294-88	MS2456A20
16	294-96	MS2456A16
#12, # 1 Shielded	294-72	MS24256R12
#2 Shielded	294-128	-

### Contact Removal Tools



Contact Size	Amphenol Part No.	Military Part No.
20	294-89	MS2456R20
16	294-97	MS2456R16
#12, # 1 Shielded	294-73	MS2456R12
#2 Shielded	294-127	-

For more information on other tools available consult Amphenol Aerospace. NOTE: Amphenol and Pyle tools are interchangeable.

### Standard Crimping Tool for Power Contacts



Basic Crimp Tool		Use with Turret Head
Amphenol Part No.	Military Part No.	
294-542	M22520/1-01	M22520/1-02

Contact Size	Color Code	Wire Size
20	Red	20-22-24
16	Blue	16-18-20
12	Yellow	12-14

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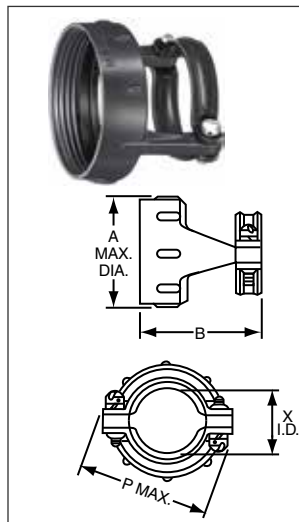
Options  
Others

# Accessories - Cable Supports

For MIL-DTL-26500 Connectors



## Cable Supports - Aluminum



Cable clamps support cable or wire at the plug or receptacle and prevent twisting and pulling.

Shell Size	Non-Conductive, Black Anodize Finish		Conductive, Chromium Finish		A Max. Dia.	B ±.015	X I.D. ±.38	Thread UNEF-2B	P Max.
	MS No.	Amphenol/Pyle No.	MS No.	Amphenol/Pyle No.					
08	*MS27291-13	*ZZL-R-5308-A	*MS27291-701	*ZZL-M-5308	.582	.935	.180	.4375-28	.785
10	*MS27291-1	*ZZL-R-5310-A	*MS27291-101	*ZZL-M-5310	.731	.935	.270	.5625-24	.914
12	MS27291-2	ZZL-R-5312-A	*MS27291-201	*ZZL-M-5312	.919	.935	.400	.7500-20	1.026
14	MS27291-3	ZZL-R-5314-A	*MS27291-301	*ZZL-M-5314	.981	1.170	.460	.8125-20	1.090
16	MS27291-4	ZZL-R-5316-A	MS27291-401	10-804941-16E	1.106	1.170	.610	.9375-20	1.250
18	*MS27291-5	*ZZL-R-5318-A	*MS27291-501	*ZZL-M-5318	1.231	1.170	.690	1.0625-18	1.358
20	*MS27291-14	*ZZL-R-5320-A	*MS27291-801	*ZZL-M-5320	1.356	1.170	.830	1.1875-18	1.496
22	*MS27291-6	*ZZL-R-5322-A	*MS27291-601	*ZZL-M-5322	1.481	1.170	.940	1.3125-18	1.604
24	MS27291-15	ZZL-R-5324-A	*MS27291-901	*ZZL-M-5324	1.606	1.170	1.040	1.4375-18	1.740

## Cable Supports - Stainless Steel, Straight



Shell Size	Standard Straight Support (L = .781)						Long Straight Support				
	MS No.	Amphenol/Pyle No.	A Dia.	MS No.	Amphenol/Pyle No.	A Dia.	Similar to MS No.	Amphenol/Pyle No.	A Dia.	L Max Overall Length	Thread
10	NA	NA	NA	NA	NA	NA	NA	*FPL-R-5310L	NA	NA	.563-36
12	NA	NA	NA	NA	NA	NA	MS27658-12	FPL-R-5312L	.435	1.070	.753-36
14	MS27657-14	ZZL-R-5314	.230	MS27657-1	FPL-R-5314	.382	MS27658-14	FPL-R-5314L	.504	1.170	.803-36
16	*MS27657-16	*ZZL-R-5316	.292	*MS27657-2	*FPL-R-5316	.462	MS27658-16	FPL-R-5316L	.686	1.270	.930-36
18	MS27657-18	ZZL-R-5318	.392	MS27657-3	FPL-R-5318	.556	*MS27658-18	*FPL-R-5318L	.794	1.370	1.036-36
20	NA	NA	NA	NA	NA	NA	NA	*FPL-R-5320L	NA	NA	NA
22	MS27657-22	ZZL-R-5322	.516	MS27657-4	FPL-R-5322	.608	MS27658-22	FPL-R-5322L	1.038	1.570	1.286-36
24	NA	NA	NA	NA	NA	NA	MS27658-24	FPL-R-5324L	1.162	1.670	1.411-36
28	NA	NA	NA	NA	NA	NA	MS27658-28	FPL-R-5328L	1.412	1.870	1.661-36

## Cable Supports - Stainless Steel, Right Angle



Shell Size	Cable Support, Right Angle				
	Similar to MS No.	Amphenol/Pyle No.	A Dia.	L Max Overall Length	Thread
10	NA	*FPL-R-5210	NA	NA	.563-36
12	MS27659-12	FPL-R-5212	.435	1.298	.753-36
14	MS27659-14	FPL-R-5214	.504	1.388	.803-36
16	*MS27659-16	*FPL-R-5216	.686	1.523	.930-36
18	MS27659-18	FPL-R-5218	.794	1.622	1.036-36
22	MS27659-22	FPL-R-5222	1.038	1.878	1.286-36
24	*MS27659-24	*FPL-R-5224	1.162	2.000	1.411-36
28	*MS27659-28	*FPL-R-5228	1.412	2.250	1.661-36

\*Consult Amphenol Aerospace for availability

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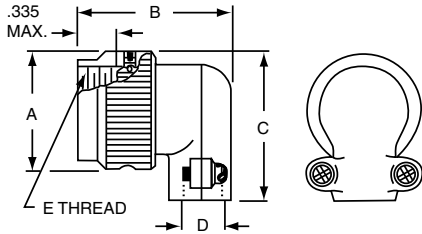
Back-  
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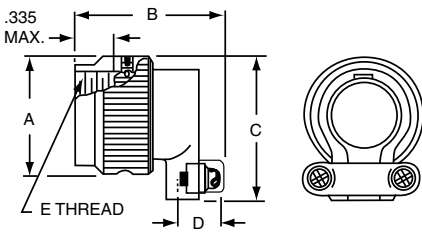
Additional right angle conduit adapters and cable support clamps are available which provide added protection for the cable or wiring. Closed back cable support clamps have a removable cover; while open back cable support clamps have a strap to protect the wires at the right angle bend.

### Cable Supports - Stainless Steel, Closed Right Angle



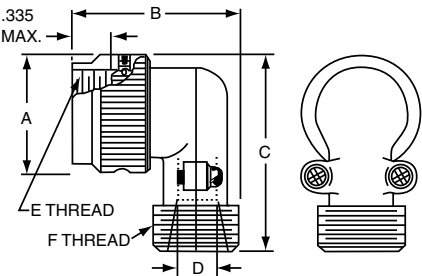
Shell Size	Cable Support - Closed Right Angle						
	MS No.	Amphenol No.	A Dia. Max.	B Max.	C Max	D Max	EThread UNEF-2B
8	MS27558-1	48-2222-08100	.672	1.200	.938	.245	.4375-28
10	MS27558-2	48-2222-10100	.797	1.320	1.049	.370	.5625-24
12	MS27558-3	48-2222-12100	1.016	1.320	1.248	.370	.7500-20
14	MS27558-4	48-2222-14100	1.110	1.487	1.330	.520	.8125-20
16	MS27558-5	48-2222-16100	1.234	1.470	1.447	.520	.9375-20
18	MS27558-6	48-2222-18100	1.360	1.588	1.577	.645	1.0625-18
20	MS27558-7	48-2222-20100	1.485	1.759	1.698	.780	1.1875-18
22	MS27558-8	48-2222-22100	1.610	1.759	1.820	.780	1.3125-18
24	MS27558-9	48-2222-24100	1.735	2.027	1.945	1.065	1.4375-18

### Cable Supports - Stainless Steel, Open Right Angle



Shell Size	Cable Support - Open Right Angle						
	MS No.	Amphenol No.	A Dia. Max.	B Max.	C Max	D Max	EThread UNEF-2B
8	MS27559-1	48-2222-08200	.672	1.173	.938	.201	.4375-28
10	MS27559-2	48-2222-10200	.797	1.293	1.049	.328	.5625-24
12	MS27559-3	48-2222-12200	1.016	1.293	1.248	.328	.7500-20
14	MS27559-4	48-2222-14200	1.110	1.460	1.330	.452	.8125-20
16	MS27559-5	48-2222-16200	1.234	1.443	1.447	.508	.9375-20
18	MS27559-6	48-2222-18200	1.360	1.561	1.577	.571	1.0625-18
20	MS27559-7	48-2222-20200	1.485	1.732	1.698	.748	1.1875-18
22	MS27559-8	48-2222-22200	1.610	1.732	1.819	.748	1.3125-18
24	MS27559-9	48-2222-24200	1.735	2.000	1.945	.996	1.4375-18

### Conduit Adapter- Stainless Steel, Right Angle



Shell Size	Conduit Adapter - Right Angle							
	Equivalent MS No.	Amphenol No.	A Dia. Max.	B Max.	C Max	D Max	EThread UNEF-2B	FThread UNEF-2A
8	MS27557-1	48-2222-08000	.672	1.300	1.403	.245	.4375-28	.6250-24
10	MS27557-2	48-2222-10000	.797	1.420	1.514	.370	.5625-24	.7500-20
12	MS27557-3	48-2222-12000	1.016	1.420	1.713	.370	.7500-20	.7500-20
14	MS27557-4	48-2222-14000	1.110	1.575	1.795	.520	.8125-20	.8750-20
16	MS27557-5	48-2222-16000	1.234	1.558	1.912	.520	.9375-20	.8750-20
18	MS27557-6	48-2222-18000	1.360	1.675	2.042	.645	1.0625-18	1.0000-20
20	MS27557-7	48-2222-20000	1.485	1.863	2.163	.780	1.1875-18	1.1875-18
22	MS27557-8	48-2222-22000	1.610	1.863	2.285	.780	1.3125-18	1.1875-18
24	MS27557-9	48-2222-24000	1.735	2.118	2.410	1.065	1.4375-18	1.4375-18

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Back-  
Shells

Options  
Others

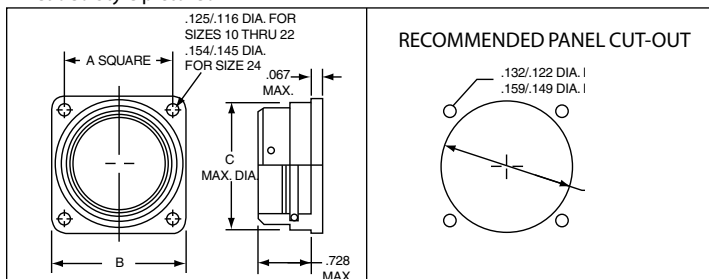
# Accessories - Dummy Receptacles

## Protection Caps

### Dummy Receptacles - Aluminum Threaded or Bayonet

Used as an anchoring place for disconnected plugs, dummy receptacles eliminate the problems involved in letting plugs swing freely. They also provide a limited air seal and prevent accumulation of foreign material on the face of the plug. Order by part numbers in chart below.

Threaded Style pictured

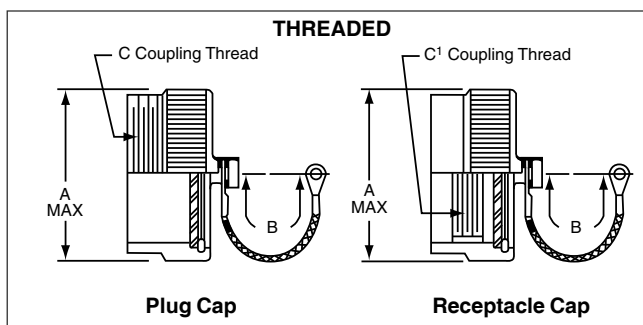
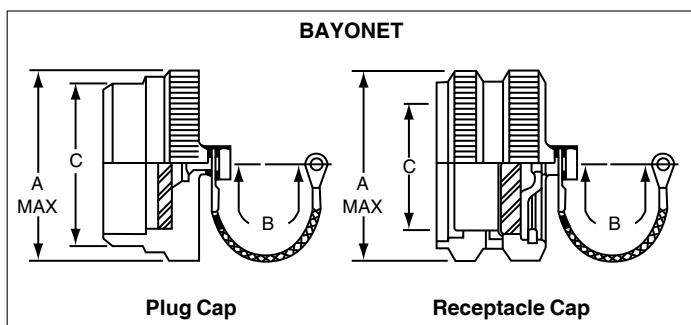


Size	Dimensional Data					How to Order			
	Thread Size UNEF-2A	A Square ±.005	B ±.005	C Max. Dia.	D Min. Dia.	Bayonet		Threaded	
						Amphenol Part No.	Equivalent MS Part No.	Amphenol Part No.	Equivalent MS Part No.
10	.6875-24	.719	.937	.696	.748	48-149-10000	MS27297-1	48-172-10000	MS27296-1
12	.8750-20	.812	1.031	.875	.913	48-149-12000	MS27297-2	48-172-12000	MS27296-2
14	.9375-20	.906	1.125	.935	.980	48-149-14000	MS27297-3	48-172-14000	MS27296-3
16	1.0625-18	.969	1.250	1.062	1.107	48-149-16000	MS27297-4	48-172-16008	MS27296-4
18	1.1875-18	1.062	1.343	1.187	1.209	48-149-18000	MS27297-5	48-172-18000	MS27296-5
20	1.3125-18	1.156	1.437	1.312	1.337	48-149-20000	MS27297-8	48-172-20000	MS27296-8
22	1.4375-18	1.250	1.562	1.437	1.452	48-149-22000	MS27297-6	48-172-22000	MS27296-6
24	1.5625-18	1.375	1.703	1.562	1.577	48-149-24000	MS27297-9	48-172-24000	MS27296-9

### Protection Caps and Chains - Threaded or Bayonet

Protective metal caps provide an environmental seal for the connector face. They exclude dirt, dust, moisture and other foreign materials from the face of unmated plugs and receptacles. The caps have a woven steel strap so they can be easily attached.

Size	Dimensional Data					
	A Max. Dia.	B ±.250 Chain Length	Bayonet Cap		Threaded Cap	
			Plug C +.000 - .005	Receptacle C' +.005 - .000	Plug C Thread UNEF-2A	Receptacle C' Thread UNEF-2B
10	.906	3.00	.659	.662	.6875-24	.6875-24
12	1.078	3.00	.829	.832	.8750-20	.8750-20
14	1.141	5.00	.898	.901	.9375-20	.9375-20
16	1.266	5.00	1.025	1.028	1.0625-18	1.0625-18
18	1.375	5.00	1.131	1.134	1.1875-18	1.1875-18
20	1.510	5.00	1.256	1.263	1.3125-18	1.3125-18
22	1.625	5.00	1.381	1.384	1.4375-18	1.4375-18
24	1.760	5.00	1.506	1.511	1.5625-18	1.5625-18



How to Order Bayonet Cap & Chain				
Size	Plug		Receptacle	
	Amphenol Part No.	Equivalent MS Part No.	Amphenol Part No.	Equivalent MS Part No.
10	48-2144	MS27293-1	48-2150	MS27295-1
12	48-2143	MS27293-2	48-2149	MS27295-2
14	48-2142	MS27293-3	48-2148	MS27295-3
16	48-2141	MS27293-4	48-2147	MS27295-4
18	48-2140	MS27293-5	48-2146	MS27295-5
20	48-2773	MS27293-8	48-2774	MS27295-8
22	48-2139	MS27293-6	48-2145	MS27295-6
24	48-2767	MS27293-9	48-2768	MS27295-9

How to Order Threaded Cap & Chain				
Size	Plug		Receptacle	
	Amphenol Part No.	Equivalent MS Part No.	Amphenol Part No.	Equivalent MS Part No.
10	48-2340-10	MS27292-1	48-2301-10	MS27294-1
12	48-2340-12	MS27292-2	48-2301-12	MS27294-2
14	48-2340-14	MS27292-3	48-2301-14	MS27294-3
16	48-2340-16	MS27292-4	48-2301-16	MS27294-4
18	48-2340-18	MS27292-5	48-2301-18	MS27294-5
20	48-2340-20	MS27292-8	48-2301-20	MS27294-8
22	48-2340-22	MS27292-6	48-2301-22	MS27294-6
24	48-2340-24	MS27292-9	48-2301-24	MS27294-9

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