

Daniels Manufacturing Corporation offers our BETA Backshell Assembly Tools, a complete line of Adaptor Tools and Torque Tools for holding and torquing circular connectors during the installation and removal of accessories (backshell, strain relief, or EMI/RFI shielding hardware).

With 60 years of industry experience, DMC is the leading manufacturer of Mil-Qualified Crimp Termination Tools, Maintenance Tool Kits, and Insertion/Removal Tools for the High-Reliability Wire Harness Industry. DMC also manufactures ALPHATRON Wire Crimp Pull Testers and SAFE-T-CABLE, the time-saving substitute for safety Lockwire. DMC products have been used on virtually every Defense System, Aircraft Program, Land or Sea Going Transport System, and Space Exploration Program.

DMC is continually working with the government and major manufacturers towards the development of support materials to keep pace with the most recent advances in technology. DMC is ready and capable to help satisfy your tooling needs with custom engineered tools.

DMC's full-service facility in Orlando, Florida has a qualified staff to recalibrate tools to meet FAA requirements and to refurbish Adaptor Tool Kits. DMC has developed a worldwide network of professionals who can assit in answering technical questions, processing orders for complete kits and individual components, and designing new service kits and modifying existing kits.

DMC is an ISO 9100:2000 and AS9100:2004 Registered Company, and ROHS Compliant.







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IMPORTANT NOTICE

The tooling suggested herein may not cover a user's specific contract or manufacturing requirements. It is the user's responsibility to carry out sufficient testing to verify the suitability of the DMC product selected for the specific requirements of each particular application. DMC is not liable for consequential or special damages of any nature or kind resulting from the use of any of our products.

Verbally quoted prices, or any prices, appearing in printed price lists, are subject to change without prior notice.

If you need firm prices for future deliveries, you should request a written quotation from our sales office.

LIMITED WARRANTY SEE INSIDE BACK COVER

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ADAPTOR TOOLS



The central element of the Daniels Manufacturing Corp. Beta connector accessory tool product line is the adaptor tool. This unique device is configured in such a manner as to mate perfectly with the corresponding circular connector keving pattern. Therefore, it can be used to hold the connector in a stationary position while the accessory components are being installed or removed. Many keying arrangements and shell sizes are utilized in high reliability wiring systems and great care must be exercised when selecting and using the Beta adaptor tool, DMC has made great efforts to combine the most possible applications into each adaptor tool design, thereby minimizing the tool requirements for overall system support. Many other important benefits are designed into DMC Beta adaptor tools.

SINGLE TOOL FOR MULTIPLE KEYING POSITIONS

When multiple keying positions exist within a specific shell size (Diameter), DMC engineers have designed each adaptor tool to accommodate as many variations as possible. Most adaptors will mate with six or more connectors having different keying positions. When compared with dummy receptacles or other connector holding devices, this flexibility is not possible.

MULTIPLE KEY ENGAGEMENT

The critical platings and delicate nature of connector keys are a prime consideration in the design of a secure connector holding system. Therefore, in all cases where the basic connector configuration permits, multiple key engagement is utilized. This allows torque to be applied to a greater

surface area and over a larger portion of the circumference of the connector.

ADAPTORS ARE AVAILABLE FOR BOTH PLUGS AND RECEPTACLES

The rotating coupling mechanism found on most plug connectors is the primary factor which prompted the original adaptor tool design; however, many users currently realize the benefits of adaptor tools when assembling or servicing receptacle connectors. DMC has both versions available for most circular connector series.

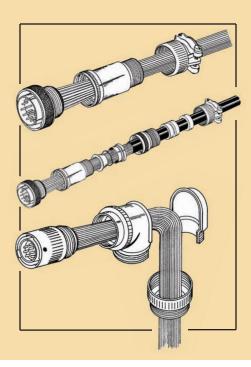
STANDARD SQUARE DRIVE MOUNTING

All DMC adaptor tools are made with a standard square drive (either 3/8" or 1/4") socket for easy utilization with common torque measuring devices or other tooling. This eliminates the need for special mounting fixtures, or other considerations common to the use of dummy receptacles and similar equipment.

CIRCULAR CONNECTORS AND THEIR ACCESSORIES

The evolution of electrical connectors has seen many changes in design configuration and utilization of many varieties of materials to meet the needs of their intended application. Backshells, strain reliefs, and other connector accessories have been a vital factor in that enduring evolutionary process.

Most connector manufacturers and suppliers offer a limited variety of connector accessories. But, the specific needs of aerospace designers has fostered a connector accessory industry comprised of many dynamic manufacturers, with extensive product lines dedicated solely to components which extend the connector's



performance capabilities. This variety of products offers the equipment designer total flexibility in the packaging of electronic wiring systems.

In the past two decades special considerations such as the shielding of electrical circuits from interference generated by radar systems, communication equipment, electrical fields, nuclear fields and harsh environmental conditions, have required accessory suppliers to develop multi-piece components which have very specific assembly and maintenance requirements. The demand for advanced tool capabilities is a critical element in the utilization of these sophisticated backshell systems.

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QUICK REFERENCE TOOLING GUIDE

CONNECTOR	ADAPTOR 1	ADAPTOR TOOL SETS					
INDENTIFICATION	PLUG	RECEPTACLE	LABEL	PAGE			
AS50151	CM-S-5015	CM-S-5015R	CHROME	6			
MIL-DTL-22992 CLASS C,J,R	CM-S-229	N/A	BROWN	7			
MIL-DTL-22992 CLASS L	CM-S-229L	N/A	BLACK	8			
MIL-DTL-26482 SERIES I & II	CM-S-264	CM-S-264R	ORANGE	9			
MIL-DTL-26500	CM-S-837	CM-S-837RB*	GREEN	10			
MIL-DTL-28840	CM-S-288	CM-S-288R	WHITE	11			
MIL-DTL-38999 SERIES I	CM-S-389L	CM-S-389LR	BLUE	12			
MIL-DTL-38999 SERIES II	CM-S-389S	CM-S-264R	GRAY/ ORANGE	13			
MIL-DTL-38999 SERIES III	CM-S-389T	CM-S-389TR	LAVENDER	14			
MIL-DTL-38999 SERIES IV	CM-S-389B	CM-S-389BR	BEIGE	15			
MIL-C-81511 SERIES I & III	CM-S-815L	CM-S-815R	YELLOW	16			
MIL-C-81511 SERIES I & IV	CM-S-815S	CM-S-815R	RED	17			
MIL-DTL-83723 SERIES I	CM-S-264	CM-S-264R	ORANGE	18			
MIL-DTL-83723 SERIES II	CM-S-5015	CM-S-5015R	CHROME	19			
MIL-DTL-83723 SERIES III	CM-S-837	CM-S-837RB*	GREEN	20			
PATTERN 602	CM-S-602	CM-S-264R	PURPLE	21			
PATTERN 615	CM-S-SJT	CM-S-264R	GOLD	22			

*BAYONET COUPLINGS ONLY – THREADED RECEPTACLE SETS ARE NOT AVAILABLE N/A – Not available at time of printing. Consult factory.

SIMPLE ORIENTATION TO THE CONNECTOR

All adaptor tools have an indicator (Dot) which visually orients it with the master key on the connector. This enables the user to orient the two components for mating without trial and error fumbling.

ECONOMICAL, RELIABLE, AND AVAILABLE

There is not a precision system for holding circular connectors available anywhere which is more economical, reliable, or readily available to meet your needs than the DMC Beta adaptor tools.



Typical Mated Pair Connectors



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BETA SYSTEM UTILIZATION

ADAPTOR TOOL COMPATIBILITY WITH OTHER BETA SYSTEM PRODUCTS

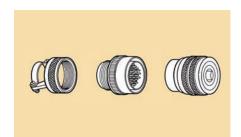
Adaptor tools and other accessory tools which comprise the DMC Beta™ product line are used in a variety of combinations to afford the user an efficient and flexible system of connector/accessory assembly. The following illustrations depict a few of the products which are combined in use. Certainly there are many applications which are not described. The selection of tools and the ways in which they are used are both dependent upon the types of connectors and accessory components as well as production and quality considerations. DMC will help with any application questions you may have.

NOTE: Rotating the connector is not recommended — due to the stress which it imposes on the wire, contacts and sealing components. Adaptors and their associated tools that are designed to hold the connector stationary while the backshell accessory is turned.



SIMPLE HAND TIGHTENING

In the most basic operation, the adaptor is mated with the connector, and held in one hand. This stabilizes the connector while the backshell accessory is tightened with the other hand.



Strain relief, connector, adaptor



Strain relief, connector, adaptor

SIMPLE MECHANICAL ASSIST

When mechanical assistance is necessary to sufficiently tighten the accessory onto the connector, the stabilizing effect of the adaptor can be reinforced with one of several tools — in the operation shown, the connector is held stationary by the use of a "T" handle in the drive hole of the adaptor, while soft jaw pliers are being used on the accessory.



Soft jaw pliers, strain relief, connector, adaptor, T-handle



Soft jaw pliers, strain relief, connector, adaptor, T-handle

Other tools, such as circular ring pliers or a strap wrench, could also have been selected to add simple mechanical assistance.



Circular Ring Pliers, strain relief, connector, adaptor, T-handle



Strap wrench, strain relief, connector

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PRODUCTION STATION APPLICATIONS

When the measurement of torque is a requirement of a particular cable assembly operation, this can be easily accomplished with the use of the digital torque wrench.



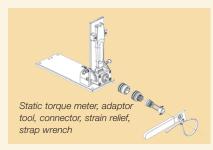
Digital torque wrench, adaptor, connector, strain relief

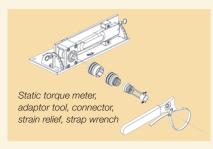


Digital torque wrench, handle-less strap wrench, connector, strain relief

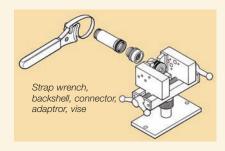
If a static torque meter is needed, the digital torque wrench can be placed in a static mount base. The adaptor is then attached to the square drive on the torque meter, and this arrangement holds the connector while the backshell accessory is torqued onto the connector, with a strap wrench.

When the torque reaches the pre-set value, a signal light advises the operator that the desired torque value has been applied.

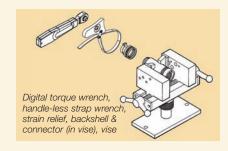




When optimum repeatability and production efficiency demand, the assembly station vise can be used to complement the ability of adaptor tools to stabilize the connector. As shown, the vise is being used to firmly hold the adaptor tool, while a strap wrench is being used to tighten the backshell onto the connector.



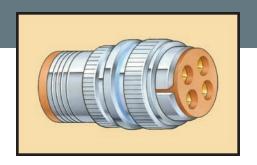
On multi-piece backshells, the correct torque on each accessory can only be achieved by efficiently holding adjacent parts. In the example shown, the assembly station vise is being used to hold the backshell segment already torqued onto the connector, while the strain relief is tightened with a strap wrench and a torque meter. Thus, the correct torque can be applied to the backshell segments without affecting the torque value already applied to prior connector/ accessory components.





Handle-less strap wrench, digital torque wrench, strain relief, backshell (in vise jaws), connector, vise

AS50151 SERIES MS3100, MS3400 & MS3450



Straight Plug Shown

MANUFACTURER: SERIES: AERO ELECTRIC AE55, AE723

AMPHENOL 69, 72, 97, 157, 172, 173, 179, 208, 238 246

BENDIX BT-M, BT-RA, HT, SCP, TBF, 10-72, 10-214, 10-244, 10-741,

10-747, 10-873, 10-874, 5015

BURNDY LM*C
CONNECTOR INDUSTRIES A
DETORONICS DS
ELECTRONIC SEALS 5015

FLIGHT CONNECTOR FC, FH, FF0, FF5, FZC, FZH

GLASSEAL GSP

HERMETIC SEAL CORP. HS06, S*A-2000, 2000

ITT CANNON

BFH, BFR, CA, CA-EB, CA-HR, CA-KE, CA-RX, CV, CVA, EX-A, FRA, FRF, FVA, FVF, FW, GS, MR, TBF, TBFH, WFS

 MATRIX SCIENCE
 MFR, M723, 944, 981

 IPI (SAE)
 M0, M5, SA

 SEALTRON
 6000, 8000

VEAM/LITTON VE, VS, VTBF, 10/71, 75

SPECIFICATIONS:

COUPLING METHOD: THREADED (MS3107,

MS3507 QUICK DISCONNECT)

KEYING POSITIONS: BLANK (NORMAL),

W, X, Y, Z

ALTERNATE KEYING ROTATION OF INSERT WITHIN SHELL – KEY

REMAINS STATIONARY

EMI/RFI GROUNDING: NO

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Cadmium Olive Drab Nickel Cadmium Olive Drab Over Nickel
WROUGHT ALUMINUM	Cadmium Olive Drab Over Nickel
STEEL	Cadmium Olive Drab Nickel
STAINLESS STEEL	Cadmium Black Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS											
PLUG (RE	MOVAE	BLE PORTIC	ON)		RECEPTACLE (STATIONARY PORTION)						
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR	BASIC IDENT. #/DESCRIPTION SHELL KEYING ADAPTOR TOOL NUMBER NUMBER	COLOR					
MS3106/Straight	8	ALL	CM5015-8	CHROME	MS3100/Wall mount 8 ALL CM5015R-8 C	CHROME					
MS3107/Quick disconnect	10	ALL	CM5015-10	CHROME	MS3101/In-line 10 ALL CM5015R-10 C	CHROME					
MS3108 /90° angle MS3436 /Straight	12	ALL	CM5015-12	CHROME		CHROME					
MS3507/Quick disconnect	14	ALL	CM5015-14	CHROME	potting seal MS3142/Box mount. 14 ALL CM5015R-14 C	CHROME					
MS25183/Straight, potting seal MS25183A/Straight, potting	16	ALL	CM5015-16	CHROME	hermetic seal 16 ALL CM5015R-16 C	CHROME					
seal, with ground lug MS3406/Straight	18	ALL	CM5015-18	CHROME		CHROME					
MS3408 /90° angle	20	ALL	CM5015-20	CHROME	MS3400/Wall mount 20 ALL CM5015R-20 C	CHROME					
MS3409/45° angle MS3456/Straight	22	ALL	CM5015-22	CHROME	MS3402/Box mount 22 ALL CM5015R-22 C	CHROME					
MS3459/Straight self-locking	Straight self-locking 24 ALL CM5015-24 CHROME coupling nut 28 ALL CM5015-28 CHROME MS3404/'Jam nut MS3412/Box mount, threaded rear skirt	24 ALL CM5015R-24 C	CHROME								
coupling nut		ALL	CM5015-28	CHROME		CHROME					
	32	ALL	CM5015-32	CHROME		CHROME					
	36	ALL	CM5015-36	CHROME	MS3452/Box mount 36 ALL CM5015R-36 C	CHROME					
	40	ALL	CM5015-40	CHROME		CHROME					
	44	ALL	CM5015-44	CHROME	*Consult factory for 44 ALL CM5015R-44 C	CHROME					
	48	ALL	CM5015-48	CHROME		CHROME					

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-5015	15	8 THRU 48
CM-S-5015S	10	8 THRU 28
CM-S-5015M	5	32 THRU 48

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-5015R	15	8 THRU 48
CM-S-5015RS	10	8 THRU 28
CM-S-5015RM	5	32 THRU 48

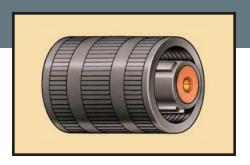
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MIL-DTL-22992 CLASS C, J&R





Plug Shown

MANUFACTURER: **BENDIX** ITT CANNON

SERIES:

HK, QWLD (10-194), 88-194

CWLD

SPECIFICATIONS:

COUPLING METHOD: QUICK DISCONNECT -THREADED COUPLING

RINGS

KEYING POSITIONS: BLANK (NORMAL),

W, X, Y, Z

ALTERNATE KEYING **ROTATION OF INSERT** WITHIN SHELL - KEYS METHOD: REMAIN STATIONARY

EMI/RFI GROUNDING: NO

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Hard Black Anodize Cadmium Olive Drab Over Nickel

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

MS 17345 C 28 N 15 P MILITARY PREFIX KEYING POSITION SHELL STYLE CONTACT TYPE (PIN OR SOCKET) CLASS INSERT ARRANGEMENT SHELL SIZE - FINISH

ADAPTOR TOOLS												
PLUG (RE	MOVAE	BLE PORTIO	ON)		RECEPTACLE (STATIONARY PORTION)							
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		
MS17344/Plug	12	ALL	CM229-12	BROWN		MS17343/Wall mount	12	-	N/A	-		
	14	ALL	CM229-14	BROWN		MS17345/In-line MS17346/Box mount	14	-	N/A	-		
	16	ALL	CM229-16	BROWN		MS17347/Jam nut wall mount	16	-	N/A	-		
	18	ALL	CM229-18	BROWN	N	MS17348/Jam nut box mount	18	-	N/A	-		
	20	ALL	CM229-20	BROWN				20	-	N/A	-	
	22	ALL	CM229-22	BROWN			22	-	N/A	-		
	24	ALL	CM229-24	BROWN			24	-	N/A	-		
	36	ALL	CM229-36	BROWN			32	-	N/A	-		
	40	ALL	CM229-40	BROWN					36	-	N/A	-
							40	-	N/A	-		

NOTE: For shell sizes 28, 32, 44 see Class "L", Page 8.

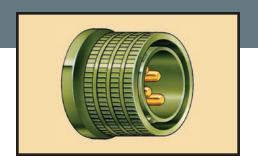
NA (Not available at time of printing - consult factory)

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-229	9	12 THRU 40	N/A	-	-

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MIL-DTL-22992 **CLASS** L



Straight Plug Shown

MANUFACTURER: **SERIES:** AMPHENOL 229 **BENDIX** 10-473

BURNDY B555, B556, B557, B558 MATRIX SCIENCE

SPECIFICATIONS:

COUPLING METHOD: QUICK DISCONNECT -THREADED COUPLING

RINGS

KEYING POSITIONS: N (NORMAL), W, X, Y ALTERNATE KEYING ROTATION OF INSERT METHOD:

WITHIN SHELL - KEYS

REMAIN STATIONARY

EMI/RFI GROUNDING: NO

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Hard Black Anodize Cadmium Olive Drab Over Nickel

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS											
PLUG (REMOVABLE PORTION)						RECE	PTACLE	(STATION	IARY PORTION	۷)	
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR	
MS90556/Straight	28	ALL	CM229L-28	BLACK		MS90555/Wall mount	28	-	N/A	-	
MS90558/Wall mount	32	ALL	CM229L-32	BLACK		MS90557/In-line	32	-	N/A	-	
	44	ALL	CM229L-44	BLACK			44	-	N/A	-	
	48	ALL	CM229L-48	BLACK			48	-	N/A	-	
	52	ALL	CM229L-52	BLACK			52	-	N/A	-	

NA (Not available at time of printing - consult factory)

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	
CM-S-229L	5	28 THRU 52	N/A	

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
N/A	-	-

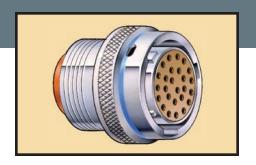
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MIL-DTL-26482 SERIES | & ||





Straight Plug Shown

MANUFACTURER: SERIES: AERO ELECTRIC AE77 **AMPHENOL** 118

BENDIX DC, FPT(21-), PT, PT*CE, SP*CE, PT*SE, PTS*DR, SP BURNDY BT, L*T

CONNECTOR INDUSTRIES DETORONICS

DEUTSCH AFD, DBC, RBC, 450, 460, 810, 880

ELECTRONIC SEALS GENERAL CONNECTOR GC, GC*C GLASSEAL BF. GB HERMETIC SEAL CORP. S*A-7000, 7000

KPD, KPSE, KSSE, KP*, KS*, KPT, KSP, KPTM, KSPM PV, PVA, **ITT CANNON**

SHELL MATERIAL & FINISH:

FINISH

Tin

Hard Anodize - Gray/Black

Cadmium Olive Drab Cadmium Olive Drab Over Nickel

SHELL

ALUMINUM

STEEL

PVJ, PVW, PVX MATRIX SCIENCE MB1

SEALTRON 6300, 8100, 8300 S.E.C.

SOURIAU 851, 851*R, 8526 **VEAM/LITTON** VPT, VPT*SE, VUT

SPECIFICATIONS:

COUPLING METHOD: BAYONET KEYING POSITIONS: BLANK (NORMAL), W, X, Y, Z

ALTERNATE KEYING ROTATION OF INSERT KEYS REMAIN STATIONARY METHOD:

FINGERS MAY NOT BE

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING AVAILABLE ON ALL MODELS)

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



	ADAPTOR TOOLS													
PLUG (RE	PLUG (REMOVABLE PORTION)							RECEPTACLE (STATIONARY PORTION)						
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR				
MS3116/Straight	8	ALL	CM264-8	ORANGE		MS3110/Wall mount	8	ALL	CM264R-8	ORANGE				
MS3126/Straight	10	ALL	CM264-10	ORANGE		MS3111/In-line	10	ALL	CM264R-10	ORANGE				
MS3475/Straight, RFI grounding MS3476/Straight	12	ALL	CM264-12	ORANGE		MS3112/Box mount MS3113/Hermetic seal solder mount	12	ALL	CM264R-12	ORANGE				
MS3121/Straight	14	ALL	CM264-14	ORANGE		MS3114/Jam nut	14	ALL	CM264R-14	ORANGE				
	16	ALL	CM264-16	ORANGE		MS3119/Thru-bulkhead MS3120/Wall mount	16	ALL	CM264R-16	ORANGE				
	18	ALL	CM264-18	ORANGE		MS3122/Box mount	18	ALL	CM264R-18	ORANGE				
	20	ALL	CM264-20	ORANGE		MS3124/Jam nut MS3127/Large flange box mount	20	ALL	CM264R-20	ORANGE				
	22	ALL	CM264-22	ORANGE		MS3128/Large flange wall mount	22	ALL	CM264R-22	ORANGE				
	24	ALL	CM264-24	ORANGE		MS3440/Hermetic seal box mount MS3442/Wide flange hermetic seal	24	ALL	CM264R-24	ORANGE				
						box mount MS3443/Hermetic seal solder mount MS3449/Hermetic seal jam nut MS3470/Wall mount MS3471/In-lime MS3472/Wide flange wall mount MS3473/Hermetic seal solder mount								

MS3474/Jam nut

MS3477/Hermetic seal box mount MS3479/Hermetic seal jam nut

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SI
CM-S-264	9	8 THRU 24	CM-S-264R	9	8 THRU 24

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GE (SHELL SIZE)

MIL-DTL-26500



Straight Plug Shown

MANUFACTURER: AMPHENOL **BOEING**

CONNECTOR INDUSTRIES DETORONICS

DEUTSCH ELECTRONIC SEALS

GLASSEAL HERMETIC SEAL CORP. **ITT CANNON** MATRIX SCIENCE

PYLE-NATIONAL SEALTRON SOURIAU

TRW

KEYING POSITIONS:

SPECIFICATIONS:

ALTERNATE KEYING METHOD:

COUPLING METHOD: BAYONET OR THREADED N (NORMAL), 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

INSERT ROTATION IN POSITIONS 1 THRU 5 MINOR KEYS ROTATE IN POSITIONS 6 THRU 10

EMI/RFI GROUNDING: NO

SERIES:

48, 48-7005, 518 BACC45F, BACC63

26500 DX

DB, DL, 94603

26500 50 26500 HTMF

MB3, MT3 B, BFH, F, ZZ

6500, 6600, 8500, 8600

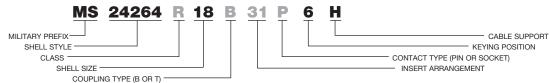
8530

C48, CN0915, CN0930, CN0942, CN0966, CN0967, MMB

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Anodize – Gray/Black Cadmium
STAINLESS STEEL	Passivated
STEEL	Tin Cadmium

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS PLUG (REMOVABLE PORTION) RECEPTACLE (STATIONARY PORTION) ADAPTOR TOOL NUMBER KEYING POSITIONS ADAPTOR TOOL NUMBER KEYING POSITIONS BASIC IDENT. #/DESCRIPTION BASIC IDENT. #/DESCRIPTION COLOR COLOR 8 N, 8, 9 CM837-8A* GREEN 8 ALL CM837RB-8 GREEN MS24266/Straight MS24264/Wall mount MS27615/Straight MS24265/Jam nut CM837RB-10 CM837-8B* **GREEN** 10 GREEN 6.7 ALL MS27034/Hermetic solder mount 8 N. 8. 9 CM837-8C** GREEN 12 ALL CM837RB-12 GREEN MS27613/Wall mount MS27614/Jam nut 8 6, 7 CM837-8D** GREEN 14 ALL CM837RB-14 GREEN 10 N, 8, 9 CM837-10A GREEN 16 ALL CM837RB-16 GREEN GREEN CM837RB-18 10 6, 7, 10 CM837-10B GREEN 18 Al I 12 N, 6, 8 CM837-12A GREEN 20 ALL CM837RB-20 GREEN 22 CM837RB-22 7. 9. 10 CM837-12B GREEN ALL **GREEN** 12 14 N. 6. 8 CM837-14A GREEN **BAYONET COUPLINGS ONLY** 24 ALL CM837RB-24 GREEN CM837-14B GREEN 16 CM837-16A GREEN N. 6. 8 16 7 9 10 CM837-16B **GRFFN** 18 N, 6, 8 CM837-18A GREEN 18 7. 9. 10 CN837-18B **GREEN** 20 N. 6. 8 CM837-20A GREEN 20 7, 9, 10 CM837-20B GREEN 22 CM837-22A GREEN N. 6. 8 GREEN 22 7 9 10 CM837-22B 24 N, 6, 8 CM837-24A GREEN 24 7. 9. 10 CM837-24B GREEN 28 N 6 8 CM837-28A GREEN 28 CM837-28B **GREEN**

* For bayonet coupling connectors only. **For threaded coupling connectors only.

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-837	22	8 THRU 28	CM-S-837RB	9	8 THRU 24

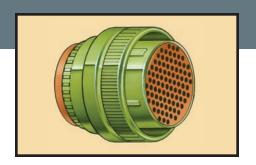
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MIL-DTL-28840





Straight Plug Shown

MANUFACTURER: **G & H TECHNOLOGY HUGHES ITT CANNON** IPI (SAE)

SERIES: NC GT, GS KFS

SPECIFICATIONS:

COUPLING METHOD: THREADED **KEYING POSITIONS:** 1, 2, 3, 4, 5, 6 ALTERNATE KEYING MASTER KEY REMAINS METHOD:

STATIONARY -MINOR KEYS ROTATE

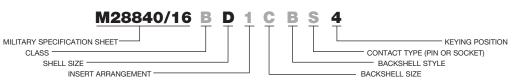
INDEPENDENTLY EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING

FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Cadmium Olive Drab Over Nickel
STEEL	Cadmium

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



				DAPT	DR	TOOLS					
PLUG (RE	BLE PORTIC	ON)	RECEPTACLE (STATIONARY PORTION)								
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR	
M28840/16 /Straight	11(A)	1, 3, 5	CM288-11A	WHITE		M28840/10/Wall mount	11(A)	1	CM288R-11A	WHITE	
M28840/17/Straight, straight strain relief	11(A)	2, 4, 6	CM288-11B	WHITE		M28840/11/In-line M28840/12/Box mount	13(B)	1	CM288R-13A	WHITE	
M28840/18/Straight, 90° strain relief	13(B)	1, 3, 5	CM288-13A	WHITE		M28840/14/ Jam nut	15(C)	1	CM288R-15A	WHITE	
M28840/19/Straight, 45°	13(B)	2, 4, 6	CM288-13B	WHITE		M28840/20 / Wall mount, EMI M28840/21 / In-line, straight	17(D)	1	CM288R-17A	WHITE	
strain relief M28840/26 /Straight, straight	15(C)	2, 3, 4	CM288-15A	WHITE		backshell for iacketed cable	19(E)	1	CM288R-19A	WHITE	
backshell for iacketed cable	15(C)	1, 5, 6	CM288-15B	WHITE			јаскетей саріе	23(F)	1	CM288R-23A	WHITE
M28840/28/Straight, 90° backshell for	17(D)	2, 3, 4	CM288-17A	WHITE				25(G)	1	CM288R-25A	WHITE
jacketed cable	17(D)	1, 5, 6	CM288-17B	WHITE			29(H)	1	CM288R-29A	WHITE	
M28840/29/Straight, 45° backshell for	19(E)	2, 3, 4	CM288-19A	WHITE			33(J)	1	CM288R-33A	WHITE	
jacketed cable	19(E)	1, 5, 6	CM288-19B	WHITE			11(A)	2, 3, 4, 5, 6	CM288R-11B	WHITE	
	23(F)	2, 3, 4	CM288-23A	WHITE			13(B)	2, 3, 4, 5, 6	CM288R-13B	WHITE	
	23(F)	1, 5, 6	CM288-23B	WHITE			15(C)	2, 3, 4, 5, 6	CM288R-15B	WHITE	
	25(G)	2, 3, 4	CM288-25A	WHITE			17(D)	2, 3, 4, 5, 6	CM288R-17B	WHITE	
	25(G)	1, 5, 6	CM288-25B	WHITE			19(E)	2, 3, 4, 5, 6	CM288R-19B	WHITE	
	29(H)	2, 3, 4	CM288-29A	WHITE			23(F)	2, 3, 4, 5, 6	CM288R-23B	WHITE	
	29(H)	1, 5, 6	CM288-29B	WHITE			25(G)	2, 3, 4, 5, 6	CM288R-25B	WHITE	
	33(J)	2, 3, 4	CM288-33A	WHITE			29(H)	2, 3, 4, 5, 6	CM288R-29B	WHITE	
	33(J)	1, 5, 6	CM288-33B	WHITE			33(J)	2, 3, 4, 5, 6	CM288R-33B	WHITE	

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-288	18	11 THRU 33	CM-S-288R	18	11 THRU 33

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MIL-DTL-38999 SERIES !



Wall Mount Receptacle Shown

MANUFACTURER: SERIES: AMPHENOL 416 **BENDIX** LJT, 5388 **CONNECTOR INDUSTRIES** CTC, DJT **DEUTSCH ELECTRONIC SEALS** SERIES I **GLASSEAL** 700 HERMETIC SEAL CORP. 900000 ITT CANNON KJJL, KJL MATRIX SCIENCE MB91 CT, LCT **PLESSEY** SAE HM (SERIES I) **SEALTRON** 9700 SOURIAU 8LT

SPECIFICATIONS:

COUPLING METHOD: BAYONET **KEYING POSITIONS:**

BLANK (NORMAL),

A, B, C, D

METHOD:

ALTERNATE KEYING ROTATION OF MASTER KEY - MINOR KEYS REMAIN STATIONARY EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING

FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Bright Cadmium Over Nickel Cadmium Olive Drab Over Nickel Anodize Nickel
STAINLESS STEEL	Passivated Nickel
STEEL	Fused Tin

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



				DART	~ =	70010					
				ADAPT	OR TOOLS						
PLUG (RE		BLE PORTION		ı		RECEI			IARY PORTION	1)	
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR	
MS27467/Straight, EMI grounding	9	ALL	CM389L-9	BLUE		MS27466/Wall mount	9	ALL	CM389LR-9	BLUE	
MS27498 /90° MS27653 /Straight, EMI grounding	11	ALL	CM389L-11	BLUE		MS27468/Jam nut MS27469/Hermetic wall mount	11	ALL	CM389LR-11	BLUE	
MS27661/Straight plug, lanyard	13	ALL	CM389L-13	BLUE		MS27470/Hermetic jam nut	13	ALL	CM389LR-13	BLUE	
release	15	ALL	CM389L-15 BLUE	BLUE	MS27496/Box mount MS27505/Box mount, (rear panel mounting)	15	ALL	CM389LR-15	BLUE		
	17	ALL	CM389L-17	BLUE		MS27505/Box mount, (rear panel mounting)	17	ALL	CM389LR-17	BLUE	
	19	ALL	CM389L-19	BLUE			19	ALL	CM389LR-19	BLUE	
	21	ALL	CM389L-21	BLUE		(rear panel mounting) MS27652/Wall mount	21	ALL	CM389LR-21	BLUE	
	23	ALL	CM389L-23	BLUE		MS27654/Wall mount,	23	ALL	CM389LR-23	BLUE	
	25	ALL	CM389L-25	BLUE		(rear panel mounting) MS27656/Wall mount,	25	ALL	CM389LR-25	BLUE	
						(rear panel mounting) MS27662/Thru-bulkhead					

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-389L	9	9 THRU 25	CM-S-389LR	9	9 THRU 25

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MIL-DTL-38999 SERIES ||





Straight Plug Shown

MANUFACTURER: **SERIES: AMPHENOL** 418 **BENDIX** CONNECTOR INDUSTRIES G, H **DETORONICS** DJT **ELECTRONIC SEALS** SERIES II **GLASSEAL** 800 HERMETIC SEAL CORP. 900000 **ITT CANNON** KJ, KJJ MATRIX SCIENCE MB92 **PLESSEY** CT HM (SERIES II) SAE

SPECIFICATIONS:

SEALTRON

SOURIAU

COUPLING METHOD: BAYONET KEYING POSITIONS: BLANK (NORMAL),

A, B, C, D

ALTERNATE KEYING MASTER KEY ROTATES – METHOD: MINOR KEYS REMAIN

STATIONARY

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING FINGERS MAY NOT

BE AVAILABLE ON ALL MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Nickel Bright Cadmium Over Nickel Cadmium Olive Drab Over Nickel Anodize
STAINLESS STEEL	Passivated Nickel
STEEL	Fused Tin

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



9800

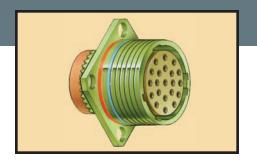
	ADAPTOR TOOLS												
PLUG (RE	MOVAE	BLE PORTIO	ON)			RECEPTACLE (STATIONARY PORTION)							
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR			
MS27473 /Straight 8 ALL CM389S-8 GRAY	MS27472/Wall mount	8	ALL	CM264R-8	ORANGE								
MS27480/Straight	10	ALL	CM389S-10	GRAY		MS27474/Jam nut	10	ALL	CM264R-10	ORANGE			
MS27484/Straight, EMI grounding MS27500/90°	12	ALL	CM389S-12	GRAY		MS27475/Hermetic wall mount MS27476/Hermetic box nut	12	ALL	CM264R-12	ORANGE			
	14	ALL	CM389S-14	GRAY		MS27477/Hermetic jam mount MS27478/Hermetic solder mount	14	ALL	CM264R-14	ORANGE			
	16	ALL	CM389S-16	GRAY		MS27479/Wall mount	16	ALL	CM264R-16	ORANGE			
	18	ALL	CM389S-18	GRAY		MS27481/Jam mount MS27482/Hermetic wall mount	18	ALL	CM264R-18	ORANGE			
	20	ALL	CM000C 00 CDAV	MS27483/Hermetic jam nut	20	ALL	CM264R-20	ORANGE					
	22	ALL	CM389S-22	GRAY		MS27497/Wall mount, back panel mounting	22	ALL	CM264R-22	ORANGE			
	24	ALL	CM389S-24	GRAY		MS27499/Box mount	24	ALL	CM264R-24	ORANGE			
						MS27503/Hermetic solder mount MS27504/Box mount, back panel mounting MS27513/Box mount, long grommet MS27664/Wall mount, back panel mounting							

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	
CM-S-389S	9	8 THRU 24	CM-S-264R	9	8 THRU 24	

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MIL-DTL-38999 SERIES III



Wall Mount Receptacle Shown

MANUFACTURER: **SERIES: BENDIX** TV, 5565 **DEUTSCH** DTS **ELECTRONIC SEALS** SERIES III **ITT CANNON** MATRIX SCIENCE MT93 **PLESSEY** TCT **PYLE-NATIONAL** Т3 **SEALTRON** 9900

SPECIFICATIONS:

KEYING POSITIONS:

METHOD:

COUPLING METHOD: THREADED, TRIPLE START SELF-LOCKING N (NORMAL), A, B, C, D, E ALTERNATE KEYING MASTER KEY REMAINS STATIONARY -

SHELL MATERIAL & FINISH:

SHELL

ALUMINUM

STEEL

FINISH

Passivated

Cadmium Olive Drab

Anodize Nickel

Nickel

MINOR KEYS ROTATE INDEPENDENTLY

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING

FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



				ADAPTO	R	TOOLS						
PLUG (RE	PLUG (REMOVABLE PORTION)						RECEPTACLE (STATIONARY PORTION) BASIC IDENT. #/DESCRIPTION SHELL KEYING ADAPTOR TOOL NUMBER COLOR					
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION				COLOR		
D38999/26 /Straight 9(A) N, C, D CM389T-9A LAVENDER	D38999/20 /Wall mount	9(A)	N	CM389TR-9A	LAVENDER							
D38999/29/Lanyard release D38999/30/Lanyard release	3(A) A, B, E	D38999/21/Hermetic seal box mount	11(B)	N	CM389TR-11A	LAVENDER						
D38999/31 /Lanyard release 11(B) N, D, E CM389T-11A LAVENDER		D38999/23/Hermetic seal jam nut	13(C)	N	CM389TR-13A	LAVENDER						
	11(B) A, B, C CM389T-11B LAVENDER 13(C) N, D, E CM389T-13A LAVENDER D38999/25/Hermet mount D38999/27/Hermet	D38999/24 /Jam nut D38999/25 /Hermetic seal solder	15(D)	N	CM389TR-15A	LAVENDER						
		LAVENDER		mount	17(E)	N	CM389TR-17A	LAVENDER				
				19(F)	N	CM389TR-19A	LAVENDER					
	15(D)	N, D, E	CM389T-15A	LAVENDER			21(G)	N	CM389TR-21A	LAVENDER		
	15(D) A, B, C CM389T-15B LAVENDER			23(H)	N	CM389TR-23A	LAVENDER					
	17(E)	N, A, B	CM389T-17A	LAVENDER			25(J)	N	CM389TR-25A	LAVENDER		
	17(E)	C, D, E	CM389T-17B	LAVENDER			9(A)	A, B, C, D, E	CM389TR-9B	LAVENDER		
	19(F)	N, A, B	CM389T-19A	LAVENDER			11(B)	A, B, C, D, E	CM389TR-11B	LAVENDER		
	19(F)	C, D, E	CM389T-19B	LAVENDER			13(C)	A, B, C, D, E	CM389TR-13B	LAVENDER		
	21(G)	N, A, B	CM389T-21A	LAVENDER			15(D)	A, B, C, D, E	CM389TR-15B	LAVENDER		
	21(G)	C, D, E	CM389T-21B	LAVENDER			17(E)	A, B, C, D, E	CM389TR-17B	LAVENDER		
	23(H)	N, A, B	CM389T-23A	LAVENDER			19(F)	A, B, C, D, E	CM389TR-19B	LAVENDER		
	23(H)	C, D, E	CM389T-23B	LAVENDER			21(G)	A, B, C, D, E	CM389TR-21B	LAVENDER		
	25(J)	N, A, B	CM389T-25A	LAVENDER	R		23(H)	A, B, C, D, E	CM389TR-23B	LAVENDER		
	25(J)	C, D, E	CM389T-25B	LAVENDER			25(J)	A, B, C, D, E	CM389TR-25B	LAVENDER		

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	
CM-S-389T	18	9 THRU 25	CM-S-389TR	18	9 THRU 25	

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MIL-DTL-38999 SERIES IV



SHELL MATERIAL & FINISH:

FINISH

Passivated

Cadmium Olive Drab

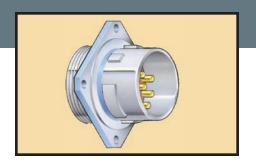
Nickel

Nickel

SHELL

ALUMINUM

STEEL



Wall Mount Receptacle Shown

MANUFACTURER: **DEUTSCH ELECTRONIC SEALS FLIGHT CONNECTOR G & H TECHNOLOGY** MATRIX SCIENCE TRW

SERIES: DIV SERIES IV ML94 CN

SPECIFICATIONS:

KEYING POSITIONS:

ALTERNATE KEYING METHOD:

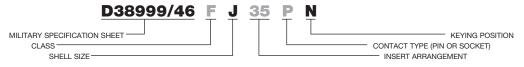
COUPLING METHOD: BREECH-LOCK (SELF LOCKING) N (NORMAL), A, B, C, D MASTER KEY REMAINS STATIONARY -

INTERLOCKING SECTIONS ROTATE INDEPENDENTLY

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING

FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



	ADAPTOR TOOLS													
PLUG (RE	PLUG (REMOVABLE PORTION)						RECEPTACLE (STATIONARY PORTION)							
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR				
D38999/46 /EMI straight	11(B)	ALL	CM389B-11	BEIGE		D38999/40 /Wall mount	11(B)	ALL	CM389BR-11	BEIGE				
13(C) ALL CW309B-13 BLIGE	D38999/41/Hermetic box mount	13(C)	ALL	CM389BR-13	BEIGE									
	15(D)	ALL	CM389B-15	BEIGE		D38999/42 / Box mount D38999/43 / Hermetic jam nut	15(D)	ALL	CM389BR-15	BEIGE				
	17(E)	ALL	CM389B-17	BEIGE		D38999/44 / Jam nut	17(E)	ALL	CM389BR-17	BEIGE				
	19(F)	ALL	CM389B-19	BEIGE		D38999/45 /Hermetic solder mount D38999/48 /Hermetic weld mount	19(F)	ALL	CM389BR-19	BEIGE				
	21(G)	ALL	CM389B-21	BEIGE		D38999/49 /In-line	21(G)	ALL	CM389BR-21	BEIGE				
	23(H)	ALL	CM389B-23	BEIGE			23(H)	ALL	CM389BR-23	BEIGE				
	25(J)	ALL	CM389B-25	BEIGE			25(J)	ALL	CM389BR-25	BEIGE				

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)			
CM-S-389B	8	11 THRU 25			

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)			
CM-S-389BR	8	11 THRU 25			

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MIL-C-81511 SERIES | & |||



Straight Plug Shown

MANUFACTURER: **SERIES:** AMPHENOL 348 **DEUTSCH** 815 HERMETIC SEAL CORP. 10-00000

SPECIFICATIONS:

COUPLING METHOD: BAYONET **KEYING POSITIONS:**

1, 2, 3, 4, 5, 6 ALTERNATE KEYING MASTER KEY REMAINS STATIONARY -

MINOR KEYS ROTATE INDEPENDENTLY

EMI/RFI GROUNDING: YES - PLUGS CONTAIN EMI/RFI GROUNDING

FINGERS

SHELL MATERIAL & FINISH:

SHELL	FINISH					
ALUMINUM	Nickel Cadmium Olive Drab Over Nickel Cadmium Olive Drab					
STAINLESS STEEL	Passivated					
STEEL	Tin					

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

M81511/26 E D 01 P MILITARY SPECIFICATION SHEET KEYING POSITION CONTACT TYPE (PIN OR SOCKET) CLASS -SHELL SIZE -INSERT ARRANGEMENT

SHELL SIZE INSERT ARRANGEMENT												
			1	ADAPTO	OR	TOOLS						
PLUG (RE	MOVAE	BLE PORTIC	ON)			RECE	PTACLE	(STATION	IARY PORTIO	N)		
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		
M81511/26/Straight	8(A)	1, 2, 3	CM815L-8A	YELLOW		M81511/21/Wall mount	8(A)	ALL	CM815R-8	YELLOW		
M81511/38/Straight, potting seal M81511/46/Straight	8(A)	4, 5, 6	CM815L-8B	YELLOW		M81511/22/Hermetic seal solder mount	10(B)	ALL	CM815R-10	YELLOW		
mo 10 11/40/ Straight	10(B) 1, 2, 6 CM815L-10A YELLOW M81511/23/Jam nut 10(B) 3, 4, 5 CM815L-10B YELLOW M81511/24/Hermetic seal ja	YELLOW			14(D)	ALL	CM815R-14	YELLOW				
		M81511/24/Hermetic seal jam nut M81511/25/In-line	16(E)	ALL	CM815R-16	YELLOW						
	14(D)	1, 2, 6	CM815L-14A	YELLOW		M81511/27/Hermetic seal jam nut	18(F)	ALL	CM815R-18	YELLOW		
	14(D)	3, 4, 5	CM815L-14B	YELLOW		M81511/35/Wall mount, potting seal M81511/36/Jam nut, potting seal M81511/37/In-line, potting seal	20(G)	ALL	CM815R-20	YELLOW		
	16(E)	1, 2, 3	CM815L-16A	YELLOW	1		22(H)	ALL	CM815R-22	YELLOW		
	16(E)	4, 5, 6	CM815L-16B	YELLOW		M81511/41/Wall mount M81511/42/Hermetic seal solder	24(J)	ALL	CM815R-24	YELLOW		
	18(F)	1, 2, 3	CM815L-18A	YELLOW		mount (class D)						
	18(F)	4, 5, 6	CM815L-18B	YELLOW		M81511/44/Hermetic seal jam nut (class D)						
	20(G)	1, 2, 3	CM815L-20A	YELLOW		M81511/45/In-line M81511/47/Hermetic seal solder						
	20(G)	4, 5, 6	CM815L-20B	YELLOW		mount (class L)						
	22(H)	1, 2, 3	CM815L-22A	YELLOW		M81511/48/Hermetic seal jam nut (class L)						
	22(H)	4, 5, 6	CM815L-22B	YELLOW	M81511/49/Jam nut							
	24(J)	1, 2, 3	CM815L-24A	YELLOW								
	24(J)	4, 5, 6	CM815L-24B	YELLOW								

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-815L	16	8 THRU 24	CM-S-815R	8	8 THRU 24

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MIL-C-81511 SERIES || & IV





Straight Plug Shown

 MANUFACTURER:
 SERIES:

 AMPHENOL
 348

 DEUTSCH
 815

 HERMETIC SEAL CORP.
 10-00000

SPECIFICATIONS:

COUPLING METHOD: BAYONET KEYING POSITIONS: 1, 2, 3, 4, 5, 6 ALTERNATE KEYING MASTER KEY

ALTERNATE KEYING MASTER KEY REMAINS METHOD: STATIONARY – MINOR KEYS ROTATE

INDEPENDENTLY

EMI/RFI GROUNDING: YES

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Nickel Cadmium Olive Drab Over Nickel Cadmium Olive Drab
STAINLESS STEEL	Passivated
STEEL	Tin

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

M81511/06 E D 01 P 1

MILITARY SPECIFICATION SHEET ______ KEYING POSITION CLASS _______ CONTACT TYPE (PIN OR SOCKET)

SHELL SIZE ______ INSERT ARRANGEMENT

			ı	ADAPT	OR	TOOLS						
PLUG (REMOVABLE PORTION)												
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDEI						
M81511/06/Straight	8(A)	ALL	CM815S-8	RED		M81511/01/						
M81511/34/Straight, potting seal	10(B)	1, 4, 5	CM815S-10A	RED		M81511/02/						
M81511/56 /Straight	10(B)	2, 3, 6	CM815S-10B	RED		M81511/03/						
	14(D)	1, 4, 5	CM815S-14A	RED		M81511/04/ M81511/05/						
	14(D)	2, 3, 6	CM815S-14B	RED		M81511/28/						
	16(E)	1, 2, 4	CM815S-16A	RED		M81511/31/ M81511/32/						
	16(E)	3, 5, 6	CM815S-16B	RED		M81511/33/						
	18(F)	1, 2, 4	CM815S-18A	RED		M81511/50/						
	18(F)	3, 5, 6	CM815S-18B	RED		M81511/51/						
						M81511/52						

RECEI	PTACLE	E (STATION	IARY PORTION	1)
BASIC IDENT. #/DESCRIPTION		KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M81511/01/Wall mount	8(A)	ALL	CM815R-8	YELLOW
M81511/02/Hermetic seal solder mount	10(B)	ALL	CM815R-10	YELLOW
M81511/03/Jam nut	14(D)	ALL	CM815R-14	YELLOW
M81511/04/Hermetic seal jam nut M81511/05/In-line	16(E)	ALL	CM815R-16	YELLOW
M81511/28/Hermetic seal jam nut	18(F)	ALL	CM815R-18	YELLOW
M81511/31/Wall mount, potting seal M81511/32/Jam nut, potting seal	20(G)	ALL	CM815R-20	YELLOW
M81511/33/In-line, potting seal	22(H)	ALL	CM815R-22	YELLOW
M81511/50/Hermetic seal jam nut (class L)	24(H)	ALL	CM815R-24	YELLOW
M81511/51/Wall mount				
M81511/52/Hermetic seal solder mount (class D)				
M81511/53/Jam nut				
M81511/54/Hermetic seal jam nut (class L)				
M81511/55/In-line				
M81511/57/Hermetic seal solder mount (class L)				

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-815S	9	8 THRU 18

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-815R	8	8 THRU 24

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MIL-DTL-83723 SERIES I (REF: MIL-C-26482)



Straight Plug Shown

MANUFACTURER: **SERIES:** AERO ELECTRIC AMPHENOL BENDIX AE77 118

DC, FPT(21-), PT, PT*CE, SP*CE, PT*SE, PTS*DR, SP BURNDY

BT, L*T C, K **CONNECTOR INDUSTRIES DETORONICS**

DEUTSCH AFD, DBC, RBC, 450, 460, 810, 880

ELECTRONIC SEALS GENERAL CONNECTOR GC, GC*C GLASSEAL HERMETIC SEAL CORP. BE, GB

S*A-7000, 7000
KPD, KPSE, KSSE, KP*, KS*, KPT, KSP, KPTM, KSPM, PV, PVA, PVJ, PVW, PVX **ITT CANNON**

MATRIX SCIENCE MB1

SEALTRON 6300, 8100, 8300 S.E.C. **SOURIAU** 851, 851*R, 8526 **VEAM/LITTON** VPT, VPT*SE, VUT

SPECIFICATIONS:

COUPLING METHOD: BAYONET

KEYING POSITIONS: N (NORMAL), W, X, Y, Z ALTERNATE KEYING ROTATION OF INSERT -METHOD: KEYS REMAIN STATIONARY

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING FINGERS MAY NOT BE AVAILABLE ON ALL

MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Anodize
	Nickel
STAINLESS STEEL	Passivated
STEEL	Tin

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

M83723/13 A 22 55 N MILITARY SPECIFICATION SHEET KEYING POSITION CLASS INSERT ARRANGEMENT SHELL SIZE

ADAPTOR TOOLS								
PLUG (REMOVABLE PORTION)								
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDE		
M83723/13/Straight	8	ALL	CM264-8	ORANGE		M83723/01		
M83723/14/Straight	10	ALL	CM264-10	ORANGE		M83723/02		
M82723/36/Prewired size 8 straight M83723/37/Prewired size 8 straight	12	ALL	CM264-12	ORANGE				
M83723/42/Straight, RFI grounding	14	ALL	CM264-14	ORANGE		M83723/03/ M83723/04/		
M83723/43/Straight, RFI grounding M83723/43/Straight, RFI grounding	16	ALL	CM264-16	ORANGE		M83723/05		
M83723/48/Prewired size 8 straight, RFI grounding	18	ALL	CM264-18	ORANGE		M83723/06/ M83723/07/		
M83723/49/Prewired size 8 straight,	20	ALL	CM264-20	ORANGE		M83723/08		
RFI grounding	22	ALL	CM264-22	ORANGE		M83723/09		
	24	ALL	CM264-24	ORANGE		M83723/10		
			1					

RECEI	PTACLE	E (STATION	IARY PORTION	۷)
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M83723/01/Narrow flange wall	8	ALL	CM264R-8	ORANGE
mount M83723/02/ Narrow flange wall	10	ALL	CM264R-10	ORANGE
mount	12	ALL	CM264R-12	ORANGE
M83723/03/ Wide flange wall mount M83723/04/ Wide flange wall mount	14	ALL	CM264R-14	ORANGE
M83723/05/Jam nut	16	ALL	CM264R-16	ORANGE
M83723/06/ Jam nut M83723/07/ In-line	18	ALL	CM264R-18	ORANGE
M83723/08/In-line	20	ALL	CM264R-20	ORANGE
M83723/09/Hermetic narrow flange box mount	22	ALL	CM264R-22	ORANGE
M83723/10/ Hermetic wide flange box mount	24	ALL	CM264R-24	ORANGE
M83723/11/ Hermetic solder mount				
M83723/12/ Hermetic jam nut M83723/38/ Prewired size 8 narrow flange wall mount				

nange wan mount
M83723/39/ Prewired size 8 narrow flange wall mount
M83723/40/ Prewired size 8 wide flange wall mount
M83723/41/ Prewired size 8 wide flange wall mount

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-264	9	8 THRU 24

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-264R	9	8 THRU 24

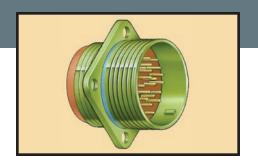
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MIL-DTL-83723 SERIES II (REF: MIL-C-5015)





Wall Mount Receptacle Shown

MANUFACTURER: AERO ELECTRIC AMPHENOL

BENDIX

BURNDY CONNECTOR INDUSTRIES

DETORONICS ELECTRONIC SEALS FLIGHT CONNECTOR

GLASSEAL HERMETIC SEAL CORP.

ITT CANNON

BFH, BFR, CA, CA-EA, CA-EB, CA-HR, CA-KE, CA-RX, CV, CVA, EX-A, FRA, FRF, FVA, FVF, FW, GS, MR, TBF, TBFH, WFS MFR, M723, 944, 981 MATRIX SCIENCE SAE M0, M5, SA **SEALTRON** 6000, 8000

VEAM/LITTON VE, VS, VTBF, 10/71, 75

SERIES:

AE55, AE723

FC, FH, FF0, FF5, FZC, FZH

HS06, S*A-2000, 2000

SHELL MATERIAL & FINISH:

69, 72, 97, 157, 172, 173, 179, 208, 238, 246 BT-M, BT-RA, HT, SCP, TBF, 10-72, 10-214, 10-244, 10-741, 10-747, 10-873, 10-874, 5015

STAINLESS STEEL

SHELL **FINISH** ALUMINUM Nickel STEEL Tin

Passivated

SPECIFICATIONS: COUPLING METHOD: THREADED

KEYING POSITIONS:

N (NORMAL), W, X, Y, Z ALTERNATE KEYING ROTATION OF INSERT -KEYS REMAIN STATIONARY METHOD:

EMI/RFI GROUNDING: NO

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

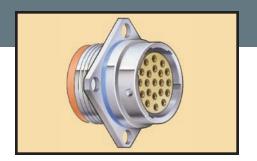


ADAPTOR TOOLS										
PLUG (RE	PLUG (REMOVABLE PORTION)					RECEPTACLE (STATIONARY PORTION)				
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M83723/23/Straight	8	ALL	CM5015-8	CHROME		M83723/17/In-line	8	ALL	CM5015R-8	CHROME
M83723/24/Straight	10	ALL	CM5015-10	CHROME		M83723/18/In-line	10	ALL	CM5015R-10	CHROME
M83723/52/Straight, self-locking coupling nut	12	ALL	CM5015-12	CHROME		M83723/19/Wall mount M83723/20/Wall mount	12	ALL	CM5015R-12	CHROME
M83723/53/Straight, self-locking coupling nut	14	ALL	CM5015-14	CHROME		M83723/21/Box mount M83723/22/Box mount	14	ALL	CM5015R-14	CHROME
	16	ALL	CM5015-16	CHROME		M83723/25/Box mount hermetic	16	ALL	CM5015R-16	CHROME
	18	ALL	CM5015-18	CHROME		M83723/26/Solder mount hermetic	18	ALL	CM5015R-18	CHROME
	20	ALL	CM5015-20	CHROME			20	ALL	CM5015R-20	CHROME
	22	ALL	CM5015-22	CHROME			22	ALL	CM5015R-22	CHROME
	24	ALL	CM5015-24	CHROME			24	ALL	CM5015R-24	CHROME
	28	ALL	CM5015-28	CHROME			28	ALL	CM5015R-28	CHROME
	32	ALL	CM5015-32	CHROME			32	ALL	CM5015R-32	CHROME
	36	ALL	CM5015-36	CHROME			36	ALL	CM5015R-36	CHROME
	40	ALL	CM5015-40	CHROME			40	ALL	CM5015R-40	CHROME
	44	ALL	CM5015-44	CHROME			44	ALL	CM5015R-44	CHROME
	48	ALL	CM5015-48	CHROME			48	ALL	CM5015R-48	CHROME

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-5015	15	8 THRU 48	CM-S-5015R	15	8 THRU 48

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MIL-DTL-83723 SERIES III (REF: MIL-C-26500)



Wall Mount Receptacle Shown

MANUFACTURER: AMPHENOL SERIES: 48, 518 BACC45F **BOEING** MIL-C-83723 SERIES III **CONNECTOR INDUSTRIES**

DETORONICS DEUTSCH DB, DL, 94603 GLASSEAL 83723

HERMETIC SEAL CORP. ITT CANNON HTMF MATRIX SCIENCE PYLE-NATIONAL MB3, MT3 B, BFH 6500, 6600 83723, 8530 **SEALTRON** SOURIAU

TRW CN0930, CN0966, CN0967

SPECIFICATIONS:

COUPLING METHOD: BAYONET OR THREADED **KEYING POSITIONS:** N (NORMAL), 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

ALTERNATE KEYING INSERT ROTATION IN POSITIONS 1 THRU 5, MINOR KEY ROTATION METHOD: IN POSITIONS 6 THRU 10

EMI/RFI GROUNDING: YES (EMI/RFI FINGERS MAY NOT BE AVAILABLE

ON ALL MODELS)

SHELL MATERIAL & FINISH:

COLOR

GREEN

GREEN

GREEN

GREEN

GREEN

GREEN

GREEN

GREEN

GREEN

SHELL	FINISH
ALUMINUM	Black anodize Cadmium
STAINLESS STEEL	Passivated Nickel
STEEL	Tin

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

M83723/75 F **22** 55 MILITARY SPECIFICATION SHEET KEYING POSITION CLASS INSERT ARRANGEMENT SHELL SIZE

PLUG (REMOV, BASIC IDENT. #/DESCRIPTION SHEL SIZE MS83723/75/Straight 8 MS83723/76/Straight 8 MS83723/86/Straight 8 MS83723/87/Straight 8	L KEYING	ADAPTOR TOOL NUMBER	20100	RECEP	TACLE	(STATION	ARY PORTION	1)*			
MS83723/75/Straight 8 MS83723/76/Straight 8 MS83723/86/Straight 8 MS83723/87/Straight 8	POSITIONS		001.00			RECEPTACLE (STATIONARY PORTION)*					
MS83723/76/Straight MS83723/86/Straight MS83723/87/Straight 8	N, 8, 9		COLOR	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	CC			
MS83723/86/Straight MS83723/87/Straight 8		CM837-8A*	GREEN	MS83723/71/Wall mount	8	ALL	CM837RB-8	GI			
MS83723/87 /Straight 8	6, 7	CM837-8B*	GREEN	MS83723/72/Wall mount	10	ALL	CM837RB-10	GF			
WI383123/81/ Straight	N, 8, 9	CM837-8C**	GREEN	MS83723/82/Wall mount MS83723/83/Wall mount	12	ALL	CM837RB-12	GI			
MS83723/77/Straight, EMI grounding 8				MS83723/79/Box mount.				-			
MS83723/78/Straight, EMI grounding	6, 7	CM837-8D**	GREEN	hermetic seal	14	ALL	CM837RB-14	GF			
MS83723/91/Straight, EMI grounding	N, 8, 9	CM837-10A	GREEN	MS83723/88/Box mount, hermetic seal	16	ALL	CM837RB-16	GI			
MS83723/92/Straight, EMI grounding 10	6, 7, 10	CM837-10B	GREEN	MS83723/73/Jam nut	18	ALL	CM837RB-18	GF			
MS83723/95/ Straight, self-locking coupling nut	N, 6, 8	CM837-12A	GREEN	MS83723/74/Jam nut	20	ALL	CM837RB-20	GI			
MS83723/96/ Straight, self-locking coupling nut	7, 9, 10	CM837-12B	GREEN	MS83723/84/Jam nut MS83723/85/Jam nut	22	ALL	CM837RB-22	GI			
MS83723/97/Straight, self-locking coupling nut, EMI	N, 6, 8	CM837-14A	GREEN	MS83723/81/Jam nut, hermetic seal	24	ALL	CM837RB-24	GF			
grounding 14	7, 9, 10	CM837-14B	GREEN	MS83723/89/Jam nut, hermetic seal MS83723/94/Jam nut, hermetic seal							
MS83723/98/ Straight, self-locking coupling nut, EMI	N, 6, 8	CM837-16A	GREEN	MS83723/65/Jam nut, hermetic seal							
grounding MS83723/66/Straight, push-pull 16	7, 9, 10	CM837-16B	GREEN	MS83723/80/Solder mount, hermetic seal							
quick disconnect MS83723/67/Straight, push-pull	N, 6, 8	CM837-18A	GREEN	MS83723/90/Solder mount, hermetic seal							
quick disconnect 18	7, 9, 10	CN837-18B	GREEN	MS83723/93/Solder mount, hermetic seal							
MS83723/68/Straight, push-pull quick disconnect, 20	N, 6, 8	CM837-20A	GREEN	nemetic seai							
lanyard MS83723/69/ Straight, push-pull	7, 9, 10	CM837-20B	GREEN								
quick disconnect, lanyard 22	N, 6, 8	CM837-22A	GREEN								
22	7, 9, 10	CM837-22B	GREEN								
24	N, 6, 8	CM837-24A	GREEN								
24	7, 9, 10	CM837-24B	GREEN								
28	N, 6, 8	CM837-28A	GREEN								
28	7, 9, 10	CM837-28B	GREEN								

CM-S-837		22	2	8 THRU 2	28	CM-S-837RB*	9	8 THRU 24
ADAPTOR SET PART NO.	A	DAPTOR	S IN SET	COVERAGE (SHE	LL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
* For bayonet coupling only. **Fo	r thread	ed couplin	g connectors on	ly.		* Bayonet coupling only. Adaptors	not available for connectors with t	hreaded coupling.
		28	7, 9, 10	CM837-28B	GREEN			
		28	N, 6, 8	CM837-28A	GREEN			
		24	7, 9, 10	CM837-24B	GREEN			
		24	N, 6, 8	CM837-24A	GREEN			
		22	7, 9, 10	CM837-22B	GREEN			

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PATTERN 602 PAN 6432-4, EL2112



SHELL MATERIAL & FINISH:

SHELL

ALUMINUM

FINISH

Cadmium Olive Drab



Straight Plug Shown

MANUFACTURER: **AMPHENOL** CANNON ELECTRIC GB **HELLERMANN DEUTSCH** SOURIAU

SPECIFICATIONS:

COUPLING METHOD: BAYONET KEYING POSITIONS: N (NORMAL), B, C, E,

F FOR SHELL; N (NORMAL), W, X, Y, Z

SERIES:

602GB

PVX

FOR INSERT

ALTERNATE KEYING MASTER KEY REMAINS

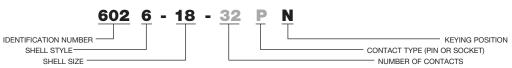
METHOD: STATIONARY - MINOR KEYS AND BAYONET PINS ROTATE. ALSO, INSERT

ROTATES

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING

FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



				ADAPTO	R	TOOLS						
PLUG (RE	MOVAE	BLE PORTI	ON)			RECEPTACLE (STATIONARY PORTION)						
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		
6026 /Plug	8	N	CM602-8A	PURPLE		6020/Square flange 6027/Jam nut 6021H/Solder fixing hermetic 6027H/Jam nut hermetic	8	ALL	CM264R-8	ORANGE		
	8	E, F	CM602-8B	PURPLE			10	ALL	CM264R-10	ORANGE		
	10	N, B, C	CM602-10A	PURPLE			12	ALL	CM264R-12	ORANGE		
	10	E, F	CM602-10B	PURPLE			14	ALL	CM264R-14	ORANGE		
	12	N, B, C	CM602-12A	PURPLE			16	ALL	CM264R-16	ORANGE		
	12	E, F	CM602-12B	PURPLE			18	ALL	CM264R-18	ORANGE		
	14	N, B, C	CM602-14A	PURPLE			20	ALL	CM264R-20	ORANGE		
	14	E, F	CM602-14B	PURPLE			22	ALL	CM264R-22	ORANGE		
	16	N, B, C	CM602-16A	PURPLE			24	ALL	CM264R-24	ORANGE		
	16	E, F	CM602-16B	PURPLE								
	18	N, B, C	CM602-18A	PURPLE								
	18	E, F	CM602-18B	PURPLE								
	20	N, B, C	CM602-20A	PURPLE								
	20	E, F	CM602-20B	PURPLE								
	22	N, B, C	CM602-22A	PURPLE								
	22	E, F	CM602-22B	PURPLE								
	24	N, B, C	CM602-24A	PURPLE								
	24	E, F	CM602-24B	PURPLE								

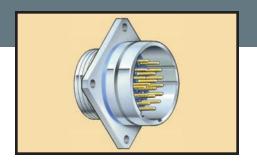
ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SI
CM-S-602	18	8 THRU 24	CM-S-264R	9	8 THRU 24

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SHELL SIZE)

PATTERN 615 PAN 6433-2



Wall Mount Receptacle Shown

MANUFACTURER:SERIES:BENDIXSJTPLESSEYMK26

SPECIFICATIONS: COUPLING METHOD: BAYONET

KEYING POSITIONS: BLANK (NORMAL), A, B, C, D

ALTERNATE KEYING MASTER KEY ROTATES – MINOR KEYS REMAIN

METHOD: MINOR KEYS REMAIN STATIONARY

EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING

FINGERS MAY NOT BE AVAILABLE ON ALL

MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Cadmium Over Nickel Bright Cadmium Cadmium Olive Drab Gray Anodize Anodic Coating (Alumilite) Bright Nickel Chromate Treated (Iridite 14-2) Cadmium Olive Drab Over Nickel Nickel
STEEL	Tin
STAINLESS STEEL	Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



				ADAPT	0R	TOOLS									
PLUG (RE	PLUG (REMOVABLE PORTION)							RECEPTACLE (STATIONARY PORTION)							
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR		BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR					
SJT06RT/Straight	8	ALL	CMSJT-8	GOLD		SJT00RT/Wall mount	8	ALL	CM264R-8	ORANGE					
SJTG06RT/Straight, RFI grounding fingers	10	ALL	CMSJT-10	GOLD		SJTP02RE/Box mount SJTP00RT/Wall mount	10	ALL	CM264R-10	ORANGE					
go.c	12	ALL	CMSJT-12	GOLD		SJT07RT/Jam nut	12	ALL	CM264R-12	ORANGE					
	14	ALL	CMSJT-14	GOLD		SJTIY/Solder mount hermetic	14	ALL	CM264R-14	ORANGE					
	16	ALL	CMSJT-16	GOLD		SJT07Y/Jam nut hermetic	16	ALL	CM264R-16	ORANGE					
	18	ALL	CMSJT-18	GOLD			18	ALL	CM264R-18	ORANGE					
	20	ALL	CMSJT-20	GOLD			20	ALL	CM264R-20	ORANGE					
	22	ALL	CMSJT-22	GOLD			22	ALL	CM264R-22	ORANGE					
	24	ALL	CMSJT-24	GOLD			24	ALL	CM264R-24	ORANGE					

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-SJT	9	8 THRU 24	CM-S-264R	9	8 THRU 24

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CONNECTOR IDENTIFICATION



THIS TABLE CAN BE USED TO IDENTIFY THE ADAPTOR TOOL SERIES REQUIRED FOR A PARTICULAR CONNECTOR. IF YOU KNOW THE COMMERCIAL OR MILITARY PREFIX OF THE CONNECTOR PART NUMBER, FIND IT IN THE LEFT COLUMN. IN THE SECOND COLUM WILL BE THE APPLICABLE PAGE NUMBER FOR THE ADAPTOR TOOL SERIES, ALONG WITH MANUFACTURER AND SPECIFICATION REFERENCE INFORMATION.

PREFIX PAGE MANUFACTURER CONNECTOR SERIES

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
10-00000	16	HERMETIC SEAL CORP.	MIL-C-81511 SERIES 1 & 3
10-00000	17	HERMETIC SEAL CORP.	MIL-C-81511 SERIES 2 & 4
10-194	7	BENDIX	MIL-C-22992 CLASSES C, J, R
10-214	6	BENDIX	MIL-C-5015
10-214	19	BENDIX	MIL-C-83723 SERIES II
10-244	6	BENDIX	MIL-C-5015
10-244	19	BENDIX	MIL-C-83723 SERIES II
10-473	8	BENDIX	MIL-C-22992 CLASS L
10-72	6	BENDIX	MIL-C-5015
10-72	19	BENDIX	MIL-C-83723 SERIES II
10-741	6	BENDIX	MIL-C-5015
10-741	19	BENDIX	MIL-C-83723 SERIES II
10-747	6	BENDIX	MIL-C-5015
10-747	19	BENDIX	MIL-C-83723 SERIES II
10-873	6	BENDIX	MIL-C-5015
10-873	19	BENDIX	MIL-C-83723 SERIES II
10-874	6	BENDIX	MIL-C-5015
10-874	19	BENDIX	MIL-C-83723 SERIES II
10/71	6	VEAM/LITTON	MIL-C-5015
10/71	19	VEAM/LITTON	MIL-C-83723 SERIES II
118	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
118	18	AMPHENOL	MIL-C-83723 SERIES I
157	6	AMPHENOL	MIL-C-5015
157	19	AMPHENOL	MIL-C-83723 SERIES II
172	6	AMPHENOL	MIL-C-5015
172	19	AMPHENOL	MIL-C-83723 SERIES II
173	6	AMPHENOL	MIL-C-5015
173	19	AMPHENOL	MIL-C-83723 SERIES II
179	6	AMPHENOL	MIL-C-5015
179	19	AMPHENOL	MIL-C-83723 SERIES II
2000	6	HERMETIC SEAL CORP.	MIL-C-5015
2000	19	HERMETIC SEAL CORP.	MIL-C-83723 SERIES II
208	6	AMPHENOL	MIL-C-5015
208	19	AMPHENOL	MIL-C-83723 SERIES II
229	8	AMPHENOL	MIL-C-22992 CLASS L
238	6	AMPHENOL	MIL-C-5015
238	19	AMPHENOL	MIL-C-83723 SERIES II
246	6	AMPHENOL	MIL-C-5015
246	19	AMPHENOL	MIL-C-83723 SERIES II
26500	10	CONNECTOR INDUSTRIES	MIL-C-26500

PREFIX	PAGE	MANUFACTURER	(REFERENCE)	
26500	10	ELECTRONIC	MIL-C-26500	
26500	10	HERMETIC SEAL CORP.	MIL-C-26500	
348	16	AMPHENOL	MIL-C-81511 SERIES 1 & 3	
348	17	AMPHENOL	MIL-C-81511 SERIES 2 & 4	
416	12	AMPHENOL	MIL-C-38999 SERIES I	
418	13	AMPHENOL	MIL-C-38999 SERIES II	
450	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2	
450	18	DEUTSCH	MIL-C-83723 SERIES I	
460	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2	
460	18	DEUTSCH	MIL-C-83723 SERIES I	
48	10	AMPHENOL	MIL-C-26500	
48	20	AMPHENOL	MIL-C-83723 SERIES III	
48-7005	10	AMPHENOL	MIL-C-26500	
50	10	GLASSEAL	MIL-C-26500	
50	20	GLASSEAL	MIL-C-83723 SERIES III	
5015	6	BENDIX	MIL-C-5015	
5015	6	ELECTRONIC SEALS	MIL-C-5015	
5015	19	BENDIX	MIL-C-83723 SERIES II	
5015	19	ELECTRONIC SEALS	MIL-C-83723 SERIES II	
518	10	AMPHENOL	MIL-C-26500	
518	20	AMPHENOL	MIL-C-83723 SERIES III	
5388	12	BENDIX	MIL-C-38999 SERIES I	
5565	14	BENDIX	MIL-C-38999 SERIES III	
6000	6	SEALTRON	MIL-C-5015	
6000	19	SEALTRON	MIL-C-83723 SERIES II	
602GB	21	AMPHENOL	PATTERN 602	
6300	9	SEALTRON	MIL-C-26482 SERIES 1 & 2	
6300	18	SEALTRON	MIL-C-83723 SERIES I	
6500	10	SEALTRON	MIL-C-26500	
6500	20	SEALTRON	MIL-C-83723 SERIES III	
6600	10	SEALTRON	MIL-C-26500	
6600	20	SEALTRON	MIL-C-83723 SERIES III	
69	6	AMPHENOL	MIL-C-5015	
69	19	AMPHENOL	MIL-C-83723 SERIES II	
700	12	GLASSEAL	MIL-C-38999 SERIES I	
7000	9	HERMETIC SEAL CORP.	MIL-C-26482 SERIES 1 & 2	
7000	18	HERMETIC SEAL CORP.	MIL-C-83723 SERIES I	
72	6	AMPHENOL	MIL-C-5015	

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES
FREFIX	PAGE	WANUFACTUREN	(REFERENCE)
72	19	AMPHENOL	MIL-C-83723 SERIES II
75	6	VEAM/LITTON	MIL-C-5015
75	19	VEAM/LITTON	MIL-C-83723 SERIES II
800	13	GLASSEAL	MIL-C-38999 SERIES II
8000	6	SEALTRON	MIL-C-5015
8000	19	SEALTRON	MIL-C-83723 SERIES II
810	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2
810	18	DEUTSCH	MIL-C-83723 SERIES I
8100	9	SEALTRON	MIL-C-26482 SERIES 1 & 2
8100	18	SEALTRON	MIL-C-83723 SERIES I
815	16	DEUTSCH	MIL-C-81511 SERIES 1 & 3
815	17	DEUTSCH	MIL-C-81511 SERIES 2 & 4
8300	9	SEALTRON	MIL-C-26482 SERIES 1 & 2
8300	18	SEALTRON	MIL-C-83723 SERIES I
83723	20	HERMETIC SEAL CORP.	MIL-C-83723 SERIES III
83723	20	SOURIAU	MIL-C-83723 SERIES IIII
83723 III	20	CONNECTOR INDUSTRIES	MIL-C-83723 SERIES III
8500	10	SEALTRON	MIL-C-26500
851	9	SOURIIAU	MIL-C-26482 SERIES 1 & 2
851	18	SOURIAU	MIL-C-83723 SERIES I
851*R	9	SOURIAU	MIL-C-26482 SERIES 1 & 2
851*R	18	SOURIAU	MIL-C-83723 SERIES I
8526	9	SOURIAU	MIL-C-26482 SERIES 1 & 2
8526	18	SOURIAU	MIL-C-83723 SERIES I
8526	21	SOURIAU	PATTERN 602
8530	10	SOURIAU	MIL-C-26500
8530	20	SOURIAU	MIL-C-83723 SERIES III
8600	10	SEALTRON	MIL-C-26500
88-194	7	BENDIX	MIL-C-22992 CLASSES C, J, R
880	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2
880	18	DEUTSCH	MIL-C-83723 SERIES I
8LT	12	SOURIAU	MIL-C-38999 SERIES I
IT	13	SOURIAU	MIL-C-38999 SERIES II
9—	9	ELECTRONIC SEALS	MIL-C-26482 SERIES 1 & 2
9—	18	ELECTRONIC SEALS	MIL-C-83723 SERIES I
900000	12	HERMETIC SEAL CORP.	MIL-C-38999 SERIES I
900000	13	HERMETIC SEAL CORP.	MIL-C-38999 SERIES II
944	6	MATRIX SCIENCE	MIL-C-5015

CONNECTOR IDENTIFICATION

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
944	19	MATRIX SCIENCE	MIL-C-83723 SERIES II
94603	10	DEUTSCH	MIL-C-26500
94603	20	DEUTSCH	MIL-C-83723 SERIES III
97	6	AMPHENOL	MIL-C-5015
97	19	AMPHENOL	MIL-C-83723 SERIES II
9700	12	SEALTRON	MIL-C-38999 SERIES I
9800	13	SEALTRON	MIL-C-38999 SERIES II
981	6	MATRIX SCIENCE	MIL-C-5015
981	19	MATRIX SCIENCE	MIL-C-83723 SERIES II
9900	14	SEALTRON	MIL-C-38999 SERIES III
A	6	CONNECTOR INDUSTRIES	MIL-C-5015
A	19	CONNECTOR INDUSTRIES	MIL-C-83723 SERIES II
AE55	6	AERO ELECTRIC	MIL-C-5015
AE55	19	AERO ELECTRIC	MIL-C-83723 SERIES II
AE723	6	AERO ELECTRIC	MIL-C-5015
AE723	19	AERO ELECTRIC	MIL-C-83723 SERIES II
AE77	9	AERO ELECTRIC	MIL-C-26482 SERIES 1 & 2
AE77	18	AERO ELECTRIC	MIL-C-83723 SERIES I
AFD	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2
AFD	18	DEUTSCH	MIL-C-83723 SERIES I
В	10	PYLE- NATIONAL	MIL-C-26500
В	20	PYLE- NATIONAL	MIL-C-83723 SERIES III
B555	8	BURNDY	MIL-C-22992 CLASS L
B556	8	BURNDY	MIL-C-22992 CLASS L
B557	8	BURNDY	MIL-C-22992 CLASS L
B558	8	BURNDY	MIL-C-22992 CLASS L
BACC45F	10	BOEING	MIL-C-26500
BACC45F	20	BOEING	MIL-C-83723 SERIES III
BACC63	10	BOEING	MIL-C-26500
BE	9	GLASSEAL	MIL-C-26482 SERIES 1 & 2
BE	18	GLASSEAL ITT CANNON	MIL-C-83723 SERIES I
BFH	10	PYLE- NATIONAL	MIL-C-5015 MIL-C-26500
BFH	19	ITT CANNON	MIL-C-83723 SERIES II
BFH	20	PYLE- NATIONAL	MIL-C-83723 SERIES III
BFR	6	ITT CANNON	MIL-C-5015
BFR	19	ITT CANNON	MIL-C-83723 SERIES II
BL	15	G & H TECHNOLOGY	MIL-C-38999 SERIES IV
BT	9	BURNDY	MIL-C-26482 SERIES 1 & 2
BT	18	BURNDY	MIL-C-83723 SERIES I
BT-M	6	BENDIX	MIL-C-5015
BT-M	19	BENDIX	MIL-C-83723 SERIES II
BT-RA	6	BENDIX	MIL-C-5015
BT-RA	19	BENDIX	MIL-C-83723 SERIES II

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
С	9	CONNECTOR INDUSTRIES	MIL-C-26482 SERIES 1 & 2
С	18	CONNECTOR INDUSTRIES	MIL-C-83723 SERIES I
C48	10	TRW	MIL-C-26500
CA	6	ITT CANNON	MIL-C-5015
CA	19	ITT CANNON	MIL-C-83723 SERIES II
CA-EA	6	ITT CANNON	MIL-C-5015
CA-EA	19	ITT CANNON	MIL-C-83723 SERIES II
CA-EB	6	ITT CANNON	MIL-C-5015
CA-EB	19	ITT CANNON	MIL-C-83723 SERIES II
CA-HR	6	ITT CANNON	MIL-C-5015
CA-HR	19	ITT CANNON	MIL-C-83723 SERIES II
CA-KE	6	ITT CANNON	MIL-C-5015
CA-KE	19	ITT CANNON	MIL-C-83723 SERIES II
CA-RX	6	ITT CANNON	MIL-C-5015
CA-RX	19	ITT CANNON	MIL-C-83723 SERIES II
CN	15	TRW	MIL-C-38999 SERIES IV
CN0915	10	TRW	MIL-C-26500
CN0930	10	TRW	MIL-C-26500
CN0930	20	TRW	MIL-C-83723 SERIES III
CN0942	10	TRW	MIL-C-26500
CN0966	10	TRW	MIL-C-26500
CN0966	20	TRW	MIL-C-83723 SERIES III
CN0967	10	TRW	MIL-C-26500
CN0967	20	TRW	MIL-C-83723 SERIES III
CT	12	PLESSEY	MIL-C-38999 SERIES I
CT	13	PLESSEY	MIL-C-38999 SERIES II
CTC	12	DEUTSCH	MIL-C-38999 SERIES I
CV	6	ITT CANNON	MIL-C-5015
CV	19	ITT CANNON	MIL-C-83723 SERIES II
CVA	6	ITT CANNON	MIL-C-5015
CVA	19	ITT CANNON	MIL-C-83723 SERIES II
CWLD	7	ITT CANNON	MIL-C-22992 CLASSES C, J, R
D38999/20	14	MILITARY	MIL-C-38999 SERIES III
D38999/21	14	MILITARY	MIL-C-38999 SERIES III
D38999/23	14	MILITARY	MIL-C-38999 SERIES III
D38999/24	14	MILITARY	MIL-C-38999 SERIES III
D38999/25	14	MILITARY	MIL-C-38999 SERIES III
D38999/26	14	MILITARY	MIL-C-38999 SERIES III
D38999/27	14	MILITARY	MIL-C-38999 SERIES III
D38999/29	14	MILITARY	MIL-C-38999 SERIES III
D38999/30	14	MILITARY	MIL-C-38999 SERIES III
D38999/31	14	MILITARY	MIL-C-38999 SERIES III
D38999/40	14	MILITARY	MIL-C-38999 SERIES III
D38999/41	14	MILITARY	MIL-C-38999 SERIES III
D38999/42	14	MILITARY	MIL-C-38999 SERIES III
D38999/43	14	MILITARY	MIL-C-38999 SERIES III
D38999/44	14	MILITARY	MIL-C-38999 SERIES III
D38999/45	14	MILITARY	MIL-C-38999 SERIES III
D38999/46	14	MILITARY	MIL-C-38999 SERIES III
		MILITARY	MIL-C-38999 SERIES III
D38999/47	14	WILLIANT	WILL O GOODS OLITICO III
D38999/47 D38999/48	14 14	MILITARY	MIL-C-38999 SERIES III

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
DB	20	DEUTSCH	MIL-C-83723 SERIES III
DBC	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2
DBC	18	DEUTSCH	MIL-C-83723 SERIES I
DC	9	BENDIX	MIL-C-26482 SERIES 1 & 2
DC	18	BENDIX	MIL-C-83723 SERIES I
DIV	15	DEUTSCH	MIL-C-38999 SERIES IV
DJT	12	DEUTSCH	MIL-C-38999 SERIES I
DJT	13	DETORONICS	MIL-C-38999 SERIES II
DL	10	DEUTSCH	MIL-C-26500
DL	20	DEUTSCH	MIL-C-83723 SERIES III
DS	6	DETORONICS	MIL-C-5015
DS	19	DETORONICS	MIL-C-83723 SERIES II
DT	9	DETORONICS	MIL-C-26482 SERIES 1 & 2
DT	18	DETORONICS	MIL-C-83723 SERIES I
DTS	14	DEUTSCH	MIL-C-38999 SERIES III
DX	10	DETORONICS	MIL-C-26500
DX	20	DETORONICS	MIL-C-83723 SERIES III
EX-A	6	ITT CANNON	MIL-C-5015
EX-A	19	ITT CANNON	MIL-C-83723 SERIES II
F	10	PYLE- NATIONAL	MIL-C-26500
FC	6	FLIGHT CONNECTOR	MIL-C-5015
FC	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FF0	6	FLIGHT CONNECTOR	MIL-C-5015
FF0	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FF5	6	FLIGHT CONNECTOR	MIL-C-5015
FF5	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FH	19	FLIGHT CONNECTOR	MIL-C-5015 MIL-C-83723 SERIES II
гп	19	FLIGHT CONNECTOR	WIL-0-03/23 SENIES II
FPT(21-)	9	BENDIX	MIL-C-26482 SERIES 1 & 2
FPT(21-)	18	BENDIX	MIL-C-83723 SERIES I
FRA	6	ITT CANNON	MIL-C-5015
FRA	19	ITT CANNON	MIL-C-83723 SERIES II
FRF	6	ITT CANNON	MIL-C-5015
FRF	19	ITT CANNON	MIL-C-83723 SERIES II
FVA	6	ITT CANNON	MIL-C-5015
FVA	19	ITT CANNON	MIL-C-83723 SERIES II
FVF	6	ITT CANNON	MIL-C-5015
FVF	19	ITT CANNON	MIL-C-83723 SERIES II
FW	6	ITT CANNON	MIL-C-5015
FW	19	ITT CANNON	MIL-C-83723 SERIES II
FZC	6	FLIGHT CONNECTOR	MIL-C-5015
FZC	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FZH	6	FLIGHT CONNECTOR	MIL-C-5015
FZH	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
G	12	CONNECTOR INDUSTRIES	MIL-C-38999 SERIES I

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PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
G	13	CONNECTOR INDUSTRIES	MIL-C-38999 SERIES II
GB	9	GLASSEAL	MIL-C-26482 SERIES 1 & 2
GB	18	GLASSEAL	MIL-C-83723 SERIES I
GC	9	GENERAL CONNECTOR	MIL-C-26482 SERIES 1 & 2
GC	18	GENERAL CONNECTOR	MIL-C-83723 SERIES I
GC*C	9	GENERAL CONNECTOR	MIL-C-26482 SERIES 1 & 2
GC*C	18	GENERAL CONNECTOR	MIL-C-83723 SERIES I
GS	6	ITT CANNON	MIL-C-5015
GS	11	HUGHES	MIL-C-28840
GS	19	ITT CANNON	MIL-C-83723 SERIES II
GSP	6	GLASSEAL	MIL-C-5015
GSP	19	GLASSEAL	MIL-C-83723 SERIES II
GT	11	HUGHES	MIL-C-28840
Н	13	CONNECTOR INDUSTRIES	MIL-C-38999 SERIES II
HD	11	IPI (SAE)	MIL-C-28840
НК	7	BENDIX	MIL-C-22992 CLASSES C, J, R
HM SERIES	12	IPI (SAE)	MIL-C-38999 SERIES I
HM SERIES	13	IPI (SAE)	MIL-C-38999 SERIES II
HS06	6	HERMETIC SEAL CORP.	MIL-C-5015
HS06	19	HERMETIC SEAL CORP.	MIL-C-83723 SERIES II
HT	6	BENDIX	MIL-C-5015
HT	19	BENDIX	MIL-C-83723 SERIES II
HTMF	10	ITT CANNON	MIL-C-26500
HTMF	20	ITT CANNON	MIL-C-83723 SERIES III
JT	13	BENDIX	MIL-C-38999 SERIES II
K	9	CONNECTOR INDUSTRIES	MIL-C-26482 SERIES 1 & 2
K	18	CONNECTOR INDUSTRIES	MIL-C-83723 SERIES I
KFS	11	ITT CANNON	MIL-C-28840
KJ	13	ITT CANNON	MIL-C-38999 SERIES II
KJA	14	ITT CANNON	MIL-C-38999 SERIES III
KJJ	13	ITT CANNON	MIL-C-38999 SERIES II
KJJL	12	ITT CANNON	MIL-C-38999 SERIES I
KJL	12	ITT CANNON	MIL-C-38999 SERIES I
KP*	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KP*	18	ITT CANNON	MIL-C-83723 SERIES I
KPD	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KPD	18	ITT CANNON	MIL-C-83723 SERIES I
KPSE	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KPSE	18	ITT CANNON	MIL-C-83723 SERIES I
KPT	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KPT	18	ITT CANNON	MIL-C-83723 SERIES I
KPTM	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KPTM	18	ITT CANNON	MIL-C-83723 SERIES I
KS*	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KS*	18	ITT CANNON	MIL-C-83723 SERIES I & 2
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KSPM	18	ITT CANNON	MIL-C-83723 SERIES I
KSSE	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
KSSE	18	ITT CANNON	MIL-C-83723 SERIES I
L*T	9	BURNDY	MIL-C-26482 SERIES 1 & 2
L*T	18	BURNDY	MIL-C-83723 SERIES I
LCT	12	PLESSEY	MIL-C-38999 SERIES I
LJT	12	BENDIX	MIL-C-38999 SERIES I
LM*C	6	BURNDY	MIL-C-5015
LM*C	19	BURNDY	MIL-C-83723 SERIES II
MO	6	IPI (SEA)	MIL-C-5015
MO	19	IPI (SAE)	MIL-C-83723 SERIES II
M28840/10	11	MILITARY	MIL-C-28840
M28840/11	11	MILITARY	MIL-C-28840
M28840/12	11	MILITARY	MIL-C-28840
M28840/16	11	MILITARY	MIL-C-28840
M28840/16	11	MILITARY	MIL-C-28840
M28840/17	11	MILITARY	MIL-C-28840
M28840/18	11	MILITARY	MIL-C-28840
M28840/19	11	MILITARY	MIL-C-28840
M28840/20	11	MILITARY	MIL-C-28840
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M28840/26	11		
	11	MILITARY	MIL-C-28840
M28840/28		MILITARY	MIL-C-28840
M28840/29	11	MILITARY	MIL-C-28840
M5	6	IPI (SAE)	MIL-C-5015
M5	19	IPI (SAE)	MIL-C-83723 SERIES II
M723	6	MATRIX SCIENCE	MIL-C-5015
M723	19	MATRIX SCIENCE	MIL-C-83723 SERIES II
M81511/01	17	MILITARY	MIL-C-81511 SERIES 2 & 4
M81511/02	17	MILITARY	MIL-C-81511 SERIES 2 & 4
M81511/03	17	MILITARY	MIL-C-81511 SERIES 2 & 4
M81511/04	17	MILITARY	MIL-C-81511 SERIES 2 & 4
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M81511/21	16	MILITARY	MIL-C-81511 SERIES 1 & 3
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M81511/24	16	MILITARY	MIL-C-81511 SERIES 1 & 3
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M81511/32	17	MILITARY	MIL-C-81511 SERIES 2 & 4
M81511/33	17	MILITARY	MIL-C-81511 SERIES 2 & 4
M81511/34	17	MILITARY	MIL-C-81511 SERIES 2 & 4
M81511/35	16	MILITARY	MIL-C-81511 SERIES 1 & 3
M81511/36	16	MILITARY	MIL-C-81511 SERIES 1 & 3
M81511/37	16	MILITARY	MIL-C-81511 SERIES 1 & 3
M81511/38	16	MILITARY	MIL-C-81511 SERIES 1 & 3

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		INDUSTRIES		KSPM	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/44	16	MILITARY	MIL-C-81511 SERIES 1 & 3
GB	9	GLASSEAL	MIL-C-26482 SERIES 1 & 2	KSPM	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/45	16	MILITARY	MIL-C-81511 SERIES 1 & 3
GB	18	GLASSEAL	MIL-C-83723 SERIES I	VOOT.	0	ITT OANNON	MIII O 00400 0EDIEO 4 0 0	M81511/46	16	MILITARY	MIL-C-81511 SERIES 1 & 3
GC	9	GENERAL	MIL-C-26482 SERIES 1 & 2	KSSE	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/47	16	MILITARY	MIL-C-81511 SERIES 1 & 3
00	40	CONNECTOR	MII. 0.00700.05DIF0.1	KSSE	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/48	16	MILITARY	MIL-C-81511 SERIES 1 & 3
GC	18	GENERAL CONNECTOR	MIL-C-83723 SERIES I	L*T L*T	9	BURNDY	MIL-C-26482 SERIES 1 & 2	M81511/49	16	MILITARY	MIL-C-81511 SERIES 1 & 3
GC*C	9	GENERAL	MIL-C-26482 SERIES 1 & 2	LCT	18	BURNDY PLESSEY	MIL-C-83723 SERIES I MIL-C-38999 SERIES I	M81511/50	17	MILITARY	MIL-C-81511 SERIES 2 & 4
		CONNECTOR		LJT	12	BENDIX	MIL-C-38999 SERIES I	M81511/51	17	MILITARY	MIL-C-81511 SERIES 2 & 4
GC*C	18	GENERAL CONNECTOR	MIL-C-83723 SERIES I	LM*C	6	BURNDY	MIL-C-5015	M81511/52	17	MILITARY	MIL-C-81511 SERIES 2 & 4
GS	6	ITT CANNON	MIL-C-5015	LM*C	19	BURNDY	MIL-C-83723 SERIES II	M81511/53	17	MILITARY	MIL-C-81511 SERIES 2 & 4
GS	11	HUGHES	MIL-C-28840	M0	6	IPI (SEA)	MIL-C-5015	M81511/54	17	MILITARY	MIL-C-81511 SERIES 2 & 4
	19		MIL-C-83723 SERIES II	MO	19	IPI (SAE)	MIL-C-83723 SERIES II	M81511/55	17	MILITARY	MIL-C-81511 SERIES 2 & 4
GS	6	ITT CANNON GLASSEAL	MIL-C-5015	M28840/10	11	MILITARY	MIL-C-28840	M81511/56	17	MILITARY	MIL-C-81511 SERIES 2 & 4
GSP	19	GLASSEAL	MIL-C-83723 SERIES II	M28840/11	11	MILITARY	MIL-C-28840	M81511/57	17	MILITARY	MIL-C-81511 SERIES 2 & 4
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Н	13		MIL-C-38999 SERIES II	M28840/16	11	MILITARY	MIL-C-28840	M83723/02	18	MILITARY	MIL-C-83723 SERIES I
п	13	CONNECTOR INDUSTRIES	MIT-0-30888 SEVIES II	M28840/16	11	MILITARY	MIL-C-28840	M83723/03	18	MILITARY	MIL-C-83723 SERIES I
HD	11	IPI (SAE)	MIL-C-28840	M28840/17	11	MILITARY	MIL-C-28840	M83723/04	18	MILITARY	MIL-C-83723 SERIES I
HK	7	BENDIX	MIL-C-22992 CLASSES	M28840/18	11	MILITARY	MIL-C-28840	M83723/05	18	MILITARY	MIL-C-83723 SERIES I
			C, J, R	M28840/19	11	MILITARY	MIL-C-28840	M83723/06	18	MILITARY	MIL-C-83723 SERIES I
HM SERIES	12	IPI (SAE)	MIL-C-38999 SERIES I	M28840/20	11	MILITARY	MIL-C-28840	M83723/07	18	MILITARY	MIL-C-83723 SERIES I
LIM CEDIEC	10	IDL (CAT)	MIL O 20000 CEDIEC II	M28840/21	11	MILITARY	MIL-C-28840	M83723/08	18	MILITARY	MIL-C-83723 SERIES I
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HS06	6	HERMETIC	MIL-C-5015	M28840/28	11	MILITARY	MIL-C-28840	M83723/10	18	MILITARY	MIL-C-83723 SERIES I
		SEAL CORP.		M28840/29	11	MILITARY	MIL-C-28840	M83723/11	18	MILITARY	MIL-C-83723 SERIES I
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HT	6 19	BENDIX BENDIX	MIL-C-83723 SERIES II	M723	6	MATRIX	MIL-C-5015	M83723/16	18	MILITARY	MIL-C-83723 SERIES I
HTMF	10	ITT CANNON	MIL-C-26500	WI7 ZJ	0	SCIENCE	WIIL-O-3013	M83723/17	19	MILITARY	MIL-C-83723 SERIES II
HTMF	20	ITT CANNON	MIL-C-83723 SERIES III	M723	19	MATRIX	MIL-C-83723 SERIES II	M83723/18	19	MILITARY	MIL-C-83723 SERIES II
JT	13	BENDIX	MIL-C-38999 SERIES II			SCIENCE		M83723/19	19	MILITARY	MIL-C-83723 SERIES II
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K	18	CONNECTOR	MIL-C-83723 SERIES I	M81511/03	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/22	19	MILITARY	MIL-C-83723 SERIES II
		INDUSTRIES		M81511/04	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/23	19	MILITARY	MIL-C-83723 SERIES II
KFS	11	ITT CANNON	MIL-C-28840	M81511/05	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/24	19	MILITARY	MIL-C-83723 SERIES II
KJ	13	ITT CANNON	MIL-C-38999 SERIES II	M81511/06	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/25	19	MILITARY	MIL-C-83723 SERIES II
KJA	14	ITT CANNON	MIL-C-38999 SERIES III	M81511/21	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/26	19	MILITARY	MIL-C-83723 SERIES II
KJJ	13	ITT CANNON	MIL-C-38999 SERIES II	M81511/22	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/36	18	MILITARY	MIL-C-83723 SERIES I
KJJL	12	ITT CANNON	MIL-C-38999 SERIES I	M81511/23	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/37	18	MILITARY	MIL-C-83723 SERIES I
KJL	12	ITT CANNON	MIL-C-38999 SERIES I	M81511/24	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/38	18	MILITARY	MIL-C-83723 SERIES I
KP*	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/25	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/39	18	MILITARY	MIL-C-83723 SERIES I
KP*	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/26	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/40	18	MILITARY	MIL-C-83723 SERIES I
KPD	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/27	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/41	18	MILITARY	MIL-C-83723 SERIES I
KPD	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/28	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/42	18	MILITARY	MIL-C-83723 SERIES I
KPSE	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/31	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/43	18	MILITARY	MIL-C-83723 SERIES I
KPSE	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/32	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/48	18	MILITARY	MIL-C-83723 SERIES I
KPT	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/33	17	MILITARY	MIL-C-81511 SERIES 2 & 4	M83723/49	18	MILITARY	MIL-C-83723 SERIES I
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KPTM	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/36	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/65	20	MILITARY	MIL-C-83723 SERIES III
KS*	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2	M81511/37	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/66	20	MILITARY	MIL-C-83723 SERIES III
KS*	18	ITT CANNON	MIL-C-83723 SERIES I	M81511/38	16	MILITARY	MIL-C-81511 SERIES 1 & 3	M83723/67	20	MILITARY	MIL-C-83723 SERIES III
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MS27662	12	MILITARY	MIL-C-38999 SERIES I
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MS3107	6	MILITARY	MIL-C-5015
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MS3126	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3127	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3128	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3142	6	MILITARY	MIL-C-5015
MS3143	6	MILITARY	MIL-C-5015
MS3400	6	MILITARY	MIL-C-5015
MS3401	6	MILITARY	MIL-C-5015
MS3402	6	MILITARY	MIL-C-5015
MS3404	6	MILITARY	MIL-C-5015
MS3406	6	MILITARY	MIL-C-5015
MS3408	6	MILITARY	MIL-C-5015
MS3409	6	MILITARY	MIL-C-5015
MS3412	6	MILITARY	MIL-C-5015
MS3436	6	MILITARY	MIL-C-5015
MS3440	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3442	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3443	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3447	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3450	6	MILITARY	MIL-C-5015
MS3451	6	MILITARY	MIL-C-5015
MS3452	6	MILITARY	MIL-C-5015
MS3454	6	MILITARY	MIL-C-5015
MS3456	6	MILITARY	MIL-C-5015
MS3459	6	MILITARY	MIL-C-5015
MS3470	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3471	9	MIL-C-26482 SERIES 1 8	
MS3472	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3473	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3474	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3475	9	MILITARY	MIL-C-26482 SERIES 1 & 2

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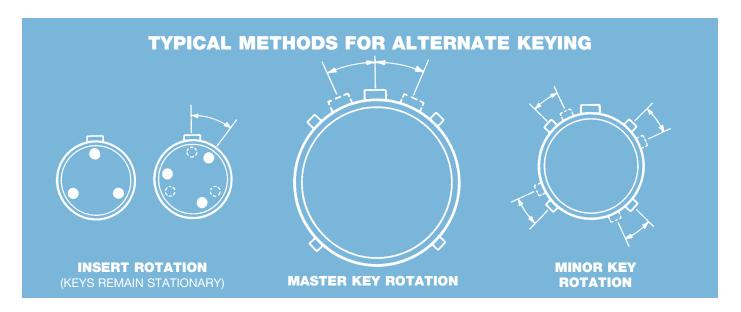
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PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
MS3476	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3477	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3479	9	MILITARY	MIL-C-26482 SERIES 1 & 2
MS3507	6	MILITARY	MIL-C-5015
MS90555	8	MILITARY	MIL-C-22992 CLASS L
MS90556	8	MILITARY	MIL-C-22992 CLASS L
MS90557	8	MILITARY	MIL-C-22992 CLASS L
MS90558	8	MILITARY	MIL-C-22992 CLASS L
MT3	10	MATRIX SCIENCE	MIL-C-26500
MT3	20	MATRIX SCIENCE	MIL-C-83723 SERIES III
MT93	14	MATRIX SCIENCE	MIL-C-38999 SERIES III
NC	11	G & H TECHNOLOGY	MIL-C-28840
Р	12	CONNECTOR INDUSTRIES	MIL-C-38999 SERIES I
PL	15	FLIGHT CONNECTOR	MIL-C-38999 SERIES IV
PT	9	BENDIX	MIL-C-26482 SERIES 1 & 2
PT	18	BENDIX	MIL-C-83723 SERIES I
PT*CE	9	BENDIX	MIL-C-26482 SERIES 1 & 2
PT*CE	18	BENDIX	MIL-C-83723 SERIES I
PT*SE	9	BENDIX	MIL-C-26482 SERIES 1 & 2
PT*SE	18	BENDIX	MIL-C-83723 SERIES I
PTS*DR	9	BENDIX	MIL-C-26482 SERIES 1 & 2
PTS*DR	18	BENDIX	MIL-C-83723 SERIES I
PV	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PV	18	ITT CANNON	MIL-C-83723 SERIES I
PVA	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PVA	18	ITT CANNON	MIL-C-83723 SERIES I
PVJ	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PVJ	18	ITT CANNON	MIL-C-83723 SERIES I

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
PVW	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PVW	18	ITT CANNON	MIL-C-83723 SERIES I
PVX	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PVX	18	ITT CANNON	MIL-C-83723 SERIES I
PVX	21	CANNON ELECTRIC GB	PATTERN 602
PW	9	S.E.C.	MIL-C-26482 SERIES 1 & 2
PW	18	S.E.C.	MIL-C-83723 SERIES I
QWLD	7	BENDIX	MIL-C-22992 CLASSES C, J, R
RBC	9	DEUTSCH	MIL-C-26482 SERIES 1 & 2
RBC	18	DEUTSCH	MIL-C-83723 SERIES I
RR	21	HELLERMANN DEUTSCH	PATTERN 602
S*A-2000	6	HERMETIC SEAL CORP.	MIL-C-5015
S*A-2000	19	HERMETIC SEAL CORP.	MIL-C-83723 SERIES II.
S*A-7000	9	HERMETIC SEAL CORP.	MIL-C-26482 SERIES 1 & 2 .
S*A-7000	18	HERMETIC SEAL CORP.	MIL-C-83723 SERIES I
SA	6	IPI (SAE)	MIL-C-5015
SA	19	IPI (SAE)	MIL-C-83723 SERIES II
SCP	6	BENDIX	MIL-C-5015
SCP	19	BENDIX	MIL-C-83723 SERIES II
SERIES I	12	ELECTRONIC SEALS	MIL-C-38999 SERIES I
SERIES II	13	ELECTRONIC SEALS	MIL-C-38999 SERIES II
SERIES III	14	ELECTRONIC SEALS	MIL-C-38999 SERIES III
SERIES IV	15	ELECTRONIC SEALS	MIL-C-38999 SERIES IV
SJT	22	BENDIX	SJT
SP	9	BENDIX	MIL-C-26482 SERIES 1 & 2

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
SP	18	BENDIX	MIL-C-83723 SERIES I
SP*CE	9	BENDIX	MIL-C-26482 SERIES 1 & 2
SP*CE	18	BENDIX	MIL-C-83723 SERIES I
T3	14	PYLE- NATIONAL	MIL-C-38999 SERIES III
TBF	6	BENDIX	MIL-C-5015
TBF	6	ITT CANNON	MIL-C-5015
TBF	19	BENDIX	MIL-C-83723 SERIES II
TBF	19	ITT CANNON	MIL-C-83723 SERIES II
TBFH	6	ITT CANNON	MIL-C-5015
TBFH	19	ITT CANNON	MIL-C-83723 SERIES II
TCT	14	PLESSEY	MIL-C-38999 SERIES III
TV	14	BENDIX	MIL-C-38999 SERIES III
VE	6	VEAM/LITTON	MIL-C-5015
VE	19	VEAM/LITTON	MIL-C-5015
VG	6	VEAM/LITTON	MIL-C-5015
VPT	9	VEAM/LITTON	MIL-C-26482 SERIES 1 & 2
VPT	18	VEAM/LITTON	MIL-C-83723 SERIES I
VPT*SE	9	VEAM/LITTON	MIL-C-26482 SERIES 1 & 2
VPT*SE	18	VEAM/LITTON	MIL-C-83723 SERIES I
VS	6	VEAM/LITTON	MIL-C-5015
VS	19	VEAM/LITTON	MIL-C-83723 SERIES II
VTBF	6	VEAM/LITTON	MIL-C-5015
VTBF	19	VEAM/LITTON	MIL-C-83723 SERIES II
VUT	9	VEAM/LITTON	MIL-C-28482 SERIES 1 & 2
VUT	18	VEAM/LITTON	MIL-C-83723 SERIES I
WFS	6	ITT CANNON	MIL-C-5015
WFS	19	ITT CANNON	MIL-C-83723 SERIES II
ZZ	10	PYLE- NATIONAL	MIL-C-26500



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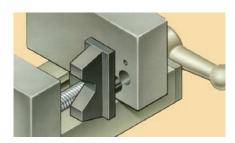
CONNECTOR MATE ® ASSEMBLY VISE





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HOW THE ASSEMBLY VISE WORKS

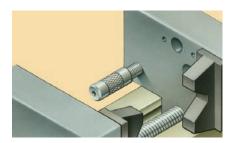
The system consists of nonmarring jaw inserts and a specially designed vise to hold them. They can be used to hold any circular part within the size range available, including connectors, backshell accessories and adaptor tools.

In a conventional vise, one jaw is stationary, while the other moves on the thread mechanism. The assembly station vise is different in that it employs an opposing thread design—that is, both jaws move in synchronization. This design has several advantages for connector assembly:

FAST TIGHTENING: A part can be secured faster, which is a benefit to production procedures.

HIGH STRENGTH: A substantial increase in strength and thread life is achieved by the double-thread arrangement.

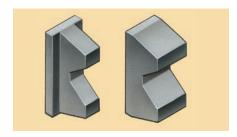
SELF-CENTERING: Because the jaws move towards each other, the work is always centered in the vise, and therefore, lateral stress and unnecessary movement of the work pieces are not introduced into the process.



ADJUSTABLE STOP: An added feature for convenience and efficiency of operation is the adjustable stop on the vise. This provides for extra gripping stability and a repeatable reference for production line applications.

JAW SETS

A set of jaws is designed to accommodate diameters from .375" to 3.00" (3/8" to 3"), within six different jaw sizes. This provides for flexibility of application — the same system can be used for most or all of the circular connectors and accessories in a cable assembly operation.



Jaws are available in two gripping widths — .400" and 1.000". The narrow jaws allow access to accessories which are smaller in diameter than adjacent components, whereas the wider jaws allow for a large grip area when higher torque values are required.

Jaws are made from high-friction material which will not damage connectors or accessories, yet will provide sufficient grip for most operations.

Prevents deformation of circular connectors and accessories by applying holding pressure evenly at four points on the circumference. That is, the jaws apply a force radially at four points equally spaced around the circumference such that the circular part readily accepts it without deformation.



If the force is applied on opposite sides (only two pressure points), the circular part will tend to collapse, and this will produce false torque readings because of increased friction between the components where the threads have been forced together.

A square drive on the thread handle allows the use of a torque device to minimize the possibility of overtightening.

The position of the jaw inserts in the vise can be changed to hold the work in the most convenient location for assembly.



The jaw inserts come packaged in a convenient metal container which keeps them clean, orderly and readily available for use. Instructions are also provided for their proper use. There are twelve pairs of jaw inserts in the container which accommodate diameters from 3/8" to 3".

	ASSEMBLY VISE
BT-VS-511	ASSEMBLY VISE WITH 24-PIECE SET OF JAW INSERTS
BT-VS-500	ASSEMBLY VISE ONLY (WITHOUT JAW INSERTS)
BT-S-550	24-PIECE SET OF JAW INSERTS, FOR USE WITH VISE BT-VS-500

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DIGITAL TORQUE TOOL



Higher Torque ratings to meet mechanical fastening requirements and the need for improved electrical bonding have fostered the need for an improved Torque Tightening System. DMC has responded to that need with a unique Digital Torque System that is rugged, flexible, and easy to use. This highly repeatable Digital Torque System can be easily used with other BETA™ Connector Accessory Tools to maintain precise tightening consistency through every facet of wiring system final assembly.

Normally, torque is only thought of as a means to prevent an assembly from loosening under vibration or other external forces. But in the present environment it is equally important not to over tighten an assembly risking damage to plating, threads, or fastening components made of metal or composite materials, and risking

failure, or a reduced service life of the wiring system.

DMC introduces the BT-ST-300D Digital Torque Tool which provides OEMs and field service techs with a simple and efficient way to precisely measure the torque values. This state-of-the-art product was developed specifically to meet the demands of connector and connector/accessory final assembly. The optional Static Mount Base was an integral design objective to provide OEM and Depot level operations utilization of the Digital Torque Tool as a bench-top or wiring board mountable Torque Station.

Several features of the tool make it a great addition to the DMC BETATM Connector Accessory Tool product line. A few of the many features are listed to the right:



- Visual and audible warning when the force torque reaches 90%, 100%, and 110% of the set torque.
- Saves last 99 torque values.
- Clear, sliding cover helps prevent accidental touching of keys.
- 1/4" drive adapter included
- Standard AAA batteries (2 batteries are included).

HAND-HELD DIGITAL TORQUE TOOLS					
BT-ST-300D	DIGITAL TORQUE TOOL, 15-300 INCH POUNDS				
BT-D-0551	ADAPTER - 3/8" DRIVE TO 1/4" SOCKET (Included)				

TORQUE ACCURACY							
IN-LB FT-LB KG-CM N.M ACCURACY							
30-300	2.5-25	34.5-345	3.4-33	CW +/-2% / CCW +/-3%			
15-29	15-29 1.25-2.4 17.3-33.4 1.7-3.3 CW +/-4% / CCW +/-6%						
DMC torque wrench calibration data is traceable to NIST.							

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DIGITAL TORQUE TOOL ACCESSORIES MANUFLED MANUFLE



STATIC MOUNT BASES FOR DIGITAL TORQUE TOOLS

DMC's Static Mount Base is a secure system to mount the Digital Torque Tool in a static position. Until now, it required two separate torque devices to have the ability for portable or static (or stationary) use, but DMC has designed one system that allows the conversion of a handheld portable unit into a stable, high production torque station in just a few minutes. This will allow a handsfree environment that is accurate, repeatable, and a far more ergonomic torque station for final assembly.

The base can be configured for horizontal or vertical positioning of the tool and allows the tool to tilt 90 degrees in each configuration for usability. The tool can still be switched between clockwise and counter-clockwise functions while attached to the Static Mount Base. Because of their compact size and lightweight construction, it can be mounted in a variety of locations either on workbench or even on harness form board.

There will sometimes be applications where the use of a static unit is impractical. In which case, the Digital Torque Tool is easily removed from the Static Mount Base.

Horizontal Configuration
Vertical Configuration

STATIC MOUNT DIGITAL TORQUE TOOL				
BT-ST-300D DIGITAL TORQUE TOOL, 15-300 INCH POUNDS				
BM-6 STATIC MOUNT BASE FOR BT-ST-300D				



The BT-BS-611T is shown here.

PART NUMBER	STRAP WIDTH	GRIPPING DIAMETER	
BT-BS-609T	1/2"	.50" to 2.50"	
BT-BS-610T	1/2"	.25" to 1.50"	
BT-BS-611T	5/8"	1.00" to 4.00"	
BT-BS-618T	1"	1.00" to 4.00"	

Different colored straps and strap configurations have different part numbers. See page 35.

STRAP WRENCH ATTACHMENT FOR THE DIGITAL TORQUE TOOL

DMC's handle-less strap wrench line has been specifically designed for torque accurate connector assembly. Based on DMC's established line of torque wrenches, the handle-less strap wrench attaches to the BT-ST-300D and provides accurate torque without the interference of the strap wrench handle.

Modern connectors and accessories comprised of lightweight materials, torque sensitive threads, and critical platings have mandated the requirement for precision strap wrenches. DMC Strap Wrenches meet this need by

applying a uniform grip around the diameter and avoid pressure points or metal-to-metal contact.

A variety of widths and lengths of straps is available in several different head configurations, so the



system is suited to all common connector applications. See page 35 or our Web site for a full list of handle-less strap wrench part numbers.

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STRAP WRENCHES

DMC strap wrenches have been specifically designed for connector assembly, rather than merely adapted from another use. The combination of lightweight materials, torque sensitive threads, and critical platings on modern connectors has mandated the requirement for precision made strap-wrenches, which apply a uniform grip around the diameter and avoid pressure points or metal-to-metal contact.

A variety of widths and lengths of straps is available, in several different handle configurations, so the system is suited to all common connector applications.



STANDARD STRAP WRENCHES						
TOOL TIP STYLE	WRENCH P/N	STRAP P/N	STRAP WIDTH (COLOR)	STRAP LOOPED	SUGGESTED GRIPPING DIAMETER	
Α	BT-BS-610	BT-A-6010	1/2" (Black)	Yes	.25" to 1.50"	
	BT-BS-610B*	BT-A-6010B*	1/2" (Blue)	Yes	.25" to 1.50"	
	BT-BS-610W	BT-A-6010W	1/2" (White)	Yes	.25" to 1.50"	
	BT-BS-610R	BT-A-6010R	1/2" (Red)	Yes	.25" to 1.50"	
В	BT-BS-609	BT-A-6010	1/2" (Black)	Yes	.50" to 2.50"	
	BT-BS-609B*	BT-A-6010B*	1/2" (Blue)	Yes	.50" to 2.50"	
	BT-BS-609W	BT-A-6010W	1/2" (White)	Yes	.50" to 2.50"	
	BT-BS-609R	BT-A-6010R	1/2" (Red)	Yes	.50" to 2.50"	
С	BT-BS-611	BT-A-6175	5/8" (Black)	Yes	1.00" to 4.00"	
	BT-BS-611B*	BT-A-6175B*	5/8" (Blue)	Yes	1.00" to 4.00"	
	BT-BS-611W	BT-A-6175W	5/8" (White)	Yes	1.00" to 4.00"	
С	BT-BS-618	BT-A-6185	1" (Black)	Yes	1.00" to 4.00"	
	BT-BS-618B*	BT-A-6185B*	1" (Blue)	Yes	1.00" to 4.00"	
	BT-BS-618W	BT-A-6185W	1" (White)	Yes	1.00" to 4.00"	
D	BT-BS-625	BT-A-6250	1/2" (Red)	Yes	.50" to 2.0"	
	BT-BS-630	BT-A-6300	7/16" (Black)	Yes	.50" to 2.0"	
Е	The Handle-Less Strap Wrenches are presented on page 35.					

 $^{^{\}star}$ The blue series strap wrench and replacement straps are preferred for connector/accessory use.

SEE TORQUE CONVERSION CHARTS ON PAGE 37 FOR USE OF STRAP WRENCHES IN COMBINATION WITH TORQUE TOOLS.



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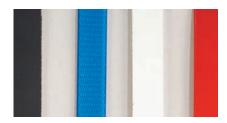
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STRAPS

The straps for DMC Strap Wrenches are available in four styles (which are color coded for easy identification) to better meet the needs of individual applications.



The **Black Strap** is the traditional rubber strap for DMC strap wrenches. It is the most flexible and grip-friendly of all strap materials, but requires replacement more often than other strap constructions. It is good for all sizes, and flexible enough to grip smaller diameters (.25 to .75 inches). But the black strap is not recommended for high torque range tightening. It is available in looped and loopless configurations. Because of the shorter service life of this material, we recommend the loopless version so the user can make adjustments to compensate for wear or breakage.

The **Blue Strap** is made of a thin layer of extruded polyethylene over a nylon belt. This strap is the preferred choice for all general purpose connector and backshell tightening applications, and it has good service life at medium to high-medium torque ranges. The Blue Straps, although not as flexible and grip-friendly as the Black Rubber straps, are a good choice because of the increased durability. This strap will grip .75 inch diameters and larger, and is available in looped and loopless configurations.

The **Red Strap** is the same material and construction as the Blue Strap, but it is thicker and stronger for higher torque range tightening and increased durability. This heavy duty construction allows it to be used on smooth or knurled surfaces, and can be used to tighten fittings with 1.0 inch diameters and larger. It is available in looped and loopless versions.

The **White Strap** is a traditional hard rubber construction option that has a durable rubber surface on one side. It is used effectively where high strength is needed, but flexibility is not important. It is well suited to all diameters of 2.0 inches or larger. Due to its sturdy & thick construction, the white strap is only available in looped configuration.

NOTE: Strap length and width are important considerations in selecting a strap wrench and the replacement straps. Sometimes Grip Pads are recommended for use with strap wrenches to add traction while tightening some surfaces. If you have any questions about the best combination for your application, contact DMC.

STRAP COLORS							
COLOR	SMALL DIAMETERS	MEDIUM DIAMETERS	LARGE DIAMETERS	TORQUE RANGE	LOOPLESS AVAILABLE		
Black	X	X	X	Med	Х		
Blue*	X	X	Х	Med- High	X		
Red		Х	Х	High	Х		
White		Х	Х	High			

STRAP CONFIGURATIONS

LOOPED LOOPLESS

STRAP WRENCH SIZES



- **A:** The BT-BS-610 Series tool tip is our small-diameter tip and designed to accommodate connectors and backshells with diameters from .25 to 1.5 inches. Straps are .5 an inch wide.
- **B:** The BT-BS-609 Series tool tip is our most popular choice for general purpose use. The mid-diameter tip is designed to accommodate connectors and backshells with diameters from .5 to 2.50 inches. Straps are .5 an inch wide.
- C: The BT-BS-611 Series tool tip is our large-diameter tip designed to accommodate connectors and backshells with diameters from 1 to 4 inches. Straps are 5/8 an inch wide.
- C: The BT-BS-618 Series tool tip is also a large-diameter tip like the BT-BS-611 designed to accommodate connectors and backshells with diameters from 1 to 4 inches, but with a 1 inch wide strap for better gripping and applying higher torque values.

^{*}The blue straps are preferred for connector/ accessory use.

LOOPLESS-STRAP STRAP WRENCH

All straps wear and break. The most common point of wear is at the upper edge of the tool tip, near the base of the strap. The standard straps have a loop sewn into one end and attach to the wrench body with a simple link. However, when the strap eventually breaks, it is unusable.

The Loopless Strap Tool Series uses a clamping buckle to attach a loopless strap to the wrench body. When a loopless strap breaks at the strain point, the majority of the strap is still usable. The operator simply removes the broken section, installs the remaining strap, and continues working.

	LOOPLESS-STRAP STRAP WRENCHES							
TOOL TIP STYLE	WRENCH P/N	STRAP P/N	STRAP WIDTH (COLOR)	STRAP LOOPED	SUGGESTED GRIPPING DIAMETER			
Α	BT-BS-610SS	BT-A-6010-BK	1/2" (Black)	No	.25" to 1.50"			
	BT-BS-610BSS	BT-A-6010B-BK*	1/2" (Blue)	No	.25" to 1.50"			
	BT-BS-610RSS	BT-A-6010R-BK	1/2" (Red)	No	.25" to 1.50"			
В	BT-BS-609SS	BT-A-6010-BK	1/2" (Black)	No	.50" to 2.50"			
	BT-BS-609BSS	BT-A-6010B-BK*	1/2" (Blue)	No	.50" to 2.50"			
	BT-BS-609RSS	BT-A-6010R-BK	1/2" (Red)	No	.50" to 2.50"			
С	BT-BS-611SS	BT-A-6175-BK	5/8" (Black)	No	1.00" to 4.00"			
	BT-BS-611BSS*	BT-A-6175B-BK*	5/8" (Blue)	No	1.00" to 4.00"			
С	BT-BS-618SS	BT-A-6185-BK	1" (Black)	No	1.00" to 4.00"			
	BT-BS-618BSS*	BT-A-6185B-BK*	1" (Blue)	No	1.00" to 4.00"			

^{*}The blue series strap wrench and replacement straps are preferred for connector/accessory use.

See Torque Conversion Charts on page 37 for use of strap wrenches in combination with torque tools.



The strap is inserted into the buckle, fed back over itself, and clamped in place with a 7/32 inch set screw.



STANDARD DMC STRAP WRENCHES CAN BE CONVERTED TO "LOOPLESS".

All strap wrenches can be ordered as Loopless versions. However, if you already own DMC strap tools, we offer a Retro Fit Kit to convert your existing looped strap tools to Loopless Strap Tools

RETROFIT KITS to convert looped strap tools to loopless strap tools.						
Retrofit Kit P/N	for Tool P/N	Strap Width (color)	Strap Looped	Suggested Gripping Diameter		
BT-BS-609SS-RK	BT-BS-609	1/2" (Black)	No	.50" to 2.50"		
BT-BS-609BSS-RK	BT-BS-609B	1/2" (Blue)	No	.50" to 2.50"		
BT-BS-610SS-RK	BT-BS-610	1/2" (Black)	No	.25" to 1.50"		
BT-BS-610BSS-RK	BT-BS-610B	1/2" (Blue)	No	.25" to 1.50"		
BT-BS-611SS-RK	BT-BS-611	5/8" (Black)	No	1.00" to 4.00"		
BT-BS-618SS-RK	BT-BS-618	1" (Black)	No	1.00" to 4.00"		



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HANDLE-LESS STRAP WRENCH





The **BT-BS-611T** is shown here.

HANDLE-LESS STRAP WRENCHES

DMC's handle-less strap wrench line has been specifically designed for torque-accurate connector assembly. Based on DMC's established line of torque wrenches, the handle-less strap wrench attaches to the **BT-ST-300D Digital Torque Tool** and provides accurate torque without the interference of the strap wrench handle.

SEE PAGE 37 FOR TORQUE CONVERSION TABLES.

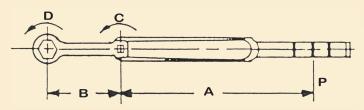
HANDLE-LESS STRAP WRENCHES FOR TORQUE WRENCHES							
TOOL TIP STYLE	WRENCH P/N	STRAP P/N	STRAP WIDTH (COLOR)	STRAP LOOPED	SUGGESTED GRIPPING DIAMETER		
	HANDLI	E-LESS LOOPED	STRAP WR	ENCHES			
Α	BT-BS-610T	BT-A-6010	1/2" (Black)	Yes	.25" to 1.50"		
	BT-BS-610BT*	BT-A-6010B*	1/2" (Blue)	Yes	.25" to 1.50"		
	BT-BS-610WT	BT-A-6010W	1/2" (White)	Yes	.25" to 1.50"		
	BT-BS-610RT	BT-A-6010R	1/2" (Red)	Yes	.25" to 1.50"		
В	BT-BS-609T	BT-A-6010	1/2" (Black)	Yes	.50" to 2.50"		
	BT-BS-609BT*	BT-A-6010B*	1/2" (Blue)	Yes	.50" to 2.50"		
	BT-BS-609WT	BT-A-6010W	1/2" (White)	Yes	.50" to 2.50"		
	BT-BS-609RT	BT-A-6010R	1/2" (Red)	Yes	.50" to 2.50"		
С	BT-BS-611T	BT-A-6175	5/8" (Black)	Yes	1.00" to 4.00"		
	BT-BS-611BT*	BT-A-6175B*	5/8" (Blue)	Yes	1.00" to 4.00"		
	BT-BS-611WT	BT-A-6175W	5/8" (White)	Yes	1.00" to 4.00"		
С	BT-BS-618T	BT-A-6185	1" (Black)	Yes	1.00" to 4.00"		
	BT-BS-618BT*	BT-A-6185B*	1" (Blue)	Yes	1.00" to 4.00"		
	BT-BS-618WT	BT-A-6185W	1" (White)	Yes	1.00" to 4.00"		
	HANDLE-	LESS LOOPLES	S STRAP WI	RENCHES			
Α	BT-BS-610SST	BT-A-6010-BK	1/2" (Black)	No	.25" to 1.50"		
	BT-BS-610BSST	BT-A-6010B-BK*	1/2" (Blue)	No	.25" to 1.50"		
	BT-BS-610RSST	BT-A-6010R-BK	1/2" (Red)	No	.25" to 1.50"		
В	BT-BS-609SST	BT-A-6010-BK	1/2" (Black)	No	.50" to 2.50"		
	BT-BS-609BSST	BT-A-6010B-BK*	1/2" (Blue)	No	.50" to 2.50"		
	BT-BS-609RSST	BT-A-6010R-BK	1/2" (Red)	No	.50" to 2.50"		
С	BT-BS-611SST	BT-A-6175-BK	5/8" (Black)	No	1.00" to 4.00"		
	BT-BS-611BSST*	BT-A-6175B-BK*	5/8" (Blue)	No	1.00" to 4.00"		
С	BT-BS-618SST	BT-A-6185-BK	1" (Black)	No	1.00" to 4.00"		
	BT-BS-618BSST*	BT-A-6185B-BK*	1" (Blue)	No	1.00" to 4.00"		

^{*}The blue series strap wrench and replacement straps are preferred for connector/accessory use.

TORQUE CONVERSION FORMULA

Torque is a standard term that is comprised of "distance and force". Since the force is applied to a threaded component in a circular motion, the distance applies to the radius (center of the torque wrench drive to a designated point on the torque wrench handle). In the case of wire harness applications, it is usually expressed in INCH-POUNDS, NEWTON-METERS, or KILOGRAM-CENTIMETERS. When extensions such as a crowfoot, or strap wrench is added to a torque wrench, it changes the distance (radius), so a mathematical formula is used to determine the correct torque readings on the torque wrench to compensate for the added length. We have included the following formulas for your convenience.





When an adapter or extension is used on a torque wrench it increases the torque range of the wrench. The formulae for computing torque when using an adapter or extension is explained below.

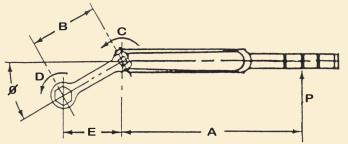
- **A** = (Length) Distance from center of torque wrench square drive to center of the puller's hand grip.
- **B** = Distance from center of torque wrench square drive to center of drive at end of extension.
- **C** = (Torque) Torque wrench setting.
- **D** = Torque desired at drive on end of extension.
- P = (Force) Pull applied.

To determine torque wrench setting:

$$C = (D*A) / (A+B)$$

NOTE: After computing "C" and setting wrench to computation, measure and mark "A" where pull is applied.

It is recommended that the axis of the extension always be used in line with axis of the torque wrench as shown above.



Should it be necessary, due to obstructions, to have an angle between the two axes, then the above formula is modified as follows. Due to increasing rounding errors, keep the angle as small as possible.

- A, B, C, D, & P are the same as above.
- **E** = Effective moment arm of the extension.
- Ø = Angle between extension axis and torque wrench axis.
- $E = (B)(COS \emptyset)$

Therefore:

$$\mathbf{C} = (\mathbf{D}^*\mathbf{A}) / (\mathbf{A} + (\mathbf{B}^*\mathbf{COS}\ \mathbf{\emptyset}))$$

When $\emptyset = 0$, $\cos \emptyset = 1$, then equation is reduced to $\mathbf{C} = (\mathbf{D} \cdot \mathbf{A}) / (\mathbf{A} + \mathbf{B})$

When $\emptyset = 90^{\circ}$, $\cos \emptyset = 0$ then $\mathbf{C} = \mathbf{D}$ (Regardless of the length \mathbf{B})

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TORQUE CONVERSION CHARTS



These torque conversion charts were calculated for the **BT-ST-300D Digital Torque Tool**. If any other torque tool or instrument is used, calculate the torque conversion by using the mathematical formula to page 36.

TORQUE CONVERSION CHART FOR BT-BS-611 AND BT-BS-618 SERIES USED WITH BT-ST-300D										
Diameter of Part Being		DESIRED TORQUE VALUE (in-lbs) ("D")								
Tightened	40	60	80	100	120	140	160	180	200	
1.00"	31	46	61	76	92	107	122	137	153	
1.50"	30	45	59	74	89	104	119	134	148	
1.75"	29	44	59	73	88	103	117	132	147	
2.00"	29	43	58	72	87	101	116	130	145	
2.25"	29	43	57	71	86	100	114	129	143	
2.50"	28	42	56	70	85	99	113	127	141	
2.75"	28	42	56	70	84	97	111	125	139	
3.00"	28	41	55	69	83	96	110	124	138	
3.25"	27	41	54	68	82	95	109	122	136	
3.50"	27	40	54	67	81	94	107	121	134	
3.75"	27	40	53	66	80	93	106	119	133	
4.00"	26	39	52	66	79	92	105	118	131	
		TORO	QUE R	READIN	IG ON	INSTF	RUMEN	NT ("C'	')	

TORQUE CONVERSION CHART FOR BT-BS-609 SERIES USED WITH BT-ST-300D											
Diameter of Part Being		DESIRED TORQUE VALUE (in-lbs) ("D")									
Tightened	40	60	80	100	120	140	160	180	200		
0.50"	34	50	67	84	101	118	135	151	168		
0.75"	33	50	66	83	99	116	133	149	166		
1.00"	33	49	65	82	98	114	131	147	163		
1.50"	32	48	64	79	95	111	127	143	159		
1.75"	31	47	63	78	94	110	125	141	157		
2.00"	31	46	62	77	93	108	124	139	155		
2.25"	31	46	61	76	92	107	122	137	153		
2.50"	30	45	60	75	90	105	121	136	151		
		TORG	QUE R	READIN	IG ON	INSTF	RUMEN	IT ("C'	')		

FOR B	TORQUE CONVERSION CHART FOR BT-BS-610 SERIES USED WITH BT-ST-300D										
Diameter of Part Being		DESIRED TORQUE VALUE (in-lbs) ("D")									
Tightened	40	60	80	100	120	140	160	180	200		
0.25"	36	54	72	89	107	125	143	161	179		
0.50"	35	52	70	87	104	122	139	156	174		
0.75"	34	51	68	86	103	120	137	154	171		
1.00"	34	51	67	84	101	118	135	152	169		
1.50"	33	49	65	81	98	114	130	146	163		
		TORO	QUE F	READIN	IG ON	INSTF	RUMEN	NT ("C'	')		

GENERAL PURPOSE BACKSHELL/ACCESSORY TOOLS

	TOOL IDENTIFICATION CHART (SEE PHOTO)				
A.	BT-HT-110	1/4" Socket Drive Handle			
B.	BT-HT-210 BT-HT-211	Mounting Arm			
C.	BT-D-0551 BT-D-0622	3/8" to 1/4" Adapter 1/4" to 3/8" Adapter			
D.	BT-HT-107	3/8" Square Drive T-Handle Wrench			
E.	BT-HT-100	1/4" Square Drive T-Handle Wrench			
F.	BT-A-0513	Ratchet 3/8" Drive			
G.	4-1149	Illuminated Magnifier			

Consult the factory or authorized DMC distributor for more information.



JAM NUT SOCKETS



The correct application of torque is essential to most connector applications where Jam Nut receptacle connectors are used. The sealing components (usually an "O" ring) must be compressed, but not to the point of damage. Another important consideration when tightening Jam Nuts is the thread strength, especially in the various types of aluminum and composite connectors.

DMC's Jam Nut Socket tools have been developed specifically for the installation of Jam Nut receptacle connectors. They are available in a light weight composite construction, anodized machined aluminum, and durable steel series.

COMPOSITE JAM NUT SOCKETS

A unique process was developed to mold this composite material which contains a higher percentage of fiberglass than is customarily used in conventional molding technology. This makes them as light and as strong as possible. The material will not scratch plating, or damage the finish on cabinets, panels, or bulkheads when used properly.

ALUMINUM JAM NUT SOCKETS

When a metal socket is required, the anodized aluminum series jam nut sockets are a good choice. They are machined to the same configuration as the composite jam nut sockets with the square hold drive for torquing.

STEEL JAM NUT SOCKETS

A steel series of jam nut sockets is also available, which some users prefer for firewall or other applications where higher torque values are required.



- **A** COMPOSITE
- **B** STEEL
- **C** ALUMINUM

The traditional "General Purpose" formed stainless steel sockets (on page 40) are great for non-torque specific Jam Nut applications.



Jam Nut Sockets are ideal for torquing jam nuts on panels where several connectors are crowded together and in other tight spaces.



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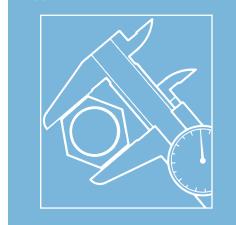
	COMPOSITE	OR METAL JAM	NUT SO	CKETS
DMC PART NUMBER	FITS JAM NUT SIZE: INCHES	FITS JAM NUT SIZE: MILLIMETERS	SQUARE DRIVE	OUTSIDE DIAMETER REFERENCE
BT-J-117	.608 to .628	15.41 to 15.95	1/4	.914
BT-J-118*	.628 to .649	15.95 to 16.48	1/4	.955
BT-J-120	.671 to .693	17.04 to 17.60	1/4	.010
BT-J-121	.693 to .717	17.60 to 18.21	1/4	1.04
BT-J-122*	.717 to .741	18.21 to 18.82	1/4	1.07
BT-J-123	.741 to .765	18.82 to 19.43	1/4	1.10
BT-J-124	.765 to .791	19.43 to 20.09	1/4	1.13
BT-J-125	.791 to .818	20.09 to 20.77	1/4	1.16
BT-J-126	.818 to .845	20.77 to 21.46	1/4	1.19
BT-J-127	.845 to .873	21.46 to 22.17	1/4	1.22
BT-J-128	.873 to .902	22.17 to 22.91	1/4	1.26
BT-J-129	.902 to .933	22.91 to 23.69	1/4	1.29
BT-J-130	.933 to .964	23.69 to 24.48	3/8	1.33
BT-J-131	.964 to .996	24.48 to 25.29	3/8	1.36
BT-J-132	.996 to 1.030	25.29 to 26.16	3/8	1.41
BT-J-133	1.030 to 1.064	26.16 to 27.02	3/8	1.45
BT-J-134	1.064 to 1.100	27.02 to 27.94	3/8	1.51
BT-J-135	1.100 to 1.137	27.94 to 28.87	3/8	1.55
BT-J-136	1.137 to 1.175	28.87 to 29.84	3/8	1.59
BT-J-137	1.175 to 1.214	29.84 to 30.83	3/8	1.63
BT-J-138	1.214 to 1.255	30.83 to 31.87	3/8	1.69
BT-J-139	1.255 to 1.297	31.87 to 32.94	3/8	1.73
BT-J-140	1.297 to 1.340	32.94 to 34.03	3/8	1.78
BT-J-141	1.340 to 1.385	34.03 to 35.17	3/8	1.84
BT-J-142	1.385 to 1.432	35.17 to 36.37	3/8	1.89
BT-J-143	1.432 to 1.480	36.37 to 37.59	3/8	1.95
BT-J-144	1.480 to 1.529	37.59 to 38.83	3/8	2.00
BT-J-145	1.529 to 1.580	38.83 to 40.13	3/8	2.06
BT-J-146	1.580 to 1.633	40.13 to 41.47	3/8	2.12
BT-J-147	1.633 to 1.688	41.47 to 42.87	3/8	2.19
BT-J-148	1.688 to 1.745	42.87 to 44.32	3/8	2.25
BT-J-149	1.745 to 1.803	44.32 to 45.79	3/8	2.32
BT-J-150	1.803 to 1.864	45.79 to 47.34	3/8	2.39
BT-J-151	1.864 to 1.926	47.34 to 48.92	3/8	2.46
BT-J-152	1.926 to 1.991	48.92 to 50.57	3/8	2.54
BT-J-153	1.991 to 2.057	50.57 to 52.24	3/8	2.61
BT-J-154	2.057 to 2.126	52.24 to 54.00	3/8	2.69
BT-J-155	2.126 to 2.197	54.00 to 55.80	3/8	2.78
BT-J-156	2.197 to 2.271	55.80 to 57.68	3/8	2.87
BT-J-157	2.271 to 2.347	57.68 to 59.61	3/8	2.95
BT-J-158	2.347 to 2.426	59.61 to 61.62	3/8	3.04
BT-J-159	2.426 to 2.507	61.62 to 63.67	3/8	3.14
BT-J-160*	2.507 to 2.591	63.67 to 65.81	3/8	3.24
BT-J-161	2.591 to 2.678	65.81 to 68.02	3/8	3.34
BT-J-162	2.678 to 2.769		3/8	
BT-J-162		68.02 to 70.33		3.44
	2.769 to 2.860	70.33 to 72.64	3/8	3.54
BT-J-164	2.860 to 2.956	72.64 to 75.08	3/8	3.66
BT-J-165	2.956 to 3.055	75.08 to 77.59	3/8	3.77
BT-J-166	3.055 to 3.157	77.59 to 80.18	3/8	3.89
BT-J-170*	3.457 to 3.557	87.81 to 90.35	3/8	4.38

PART NUMBER BT-J-XXX XX

BASIC P/N -SIZE DESIGNATOR (SEE CHART) -

MATERIAL:
BLANK = COMPOSITE; AL = ALUMINUM; S = STEEL-

TO FIND THE CORRECT JAM NUT SOCKET FOR YOUR APPLICATION, MEASURE ACROSS THE FLATS OF THE JAM NUT YOU ARE WORKING WITH. NEXT, FIND THE SIZE RANGE IN THE ADJACENT TABLE. LISTED BESIDE IT WILL BE THE SOCKET YOU NEED.





We also recommend that you consider DMC's Safe-T-Cable° to secure Jam Nut receptacles where lockwire holes are provided.

The Low Profile Ferrule (shown here) lends itself to an efficient security system for jam nut recepticals.

GENERAL PURPOSE JAM NUT SOCKETS

GENERAL PURPOSE JAM NUT SOCKETS

Formed Stainless Steel Jam Nut sockets are great for non-torque specific jam nut applications. They are plated for corrosion resistance, and have drive holes to accommodate a metal rod drive tool (P/N DW75).





GENERAL PURPOSE JAM NUT SOCKETS

DMC PART#	FITS JAM NUT SIZE: INCHES	AMPHENOL BCO PART NUMBER	HEX REF. DIM: INCHES	EQUIVALENT		
CS8	.755 to .763	11-6266-3	3/4"	BT-J-123		
CS10	.880 to .888	11-6266-5	7/8"	BT-J-128		
CS12	1.068 to 1.077	11-6266-8	1 1/16"	BT-J-134		
CS14	1.194 to 1.204	11-6266-10	1 3/16"	BT-J-137		
CS16	1.320 to 1.331	11-6266-12	1 5/16"	BT-J-140		
CS18	1.446 to 1.457	11-6266-14	1 7/16"	BT-J-143		
CS20	1.571 to 1.580	11-6266-16	1 9/16"	BT-J-145		
CS22	1.696 to 1.708	11-6266-18	1 11/16"	BT-J-148		
CS24	1.822 to 1.835	11-6266-20	1 13/16"	BT-J-150		
CS22-1	2.011 to 2.025	11-6266-23	2"	BT-J-153		
CS24-1	2.137 to 2.151	11-6266-25	2 1/8"	BT-J-155		
CS32	2.640 to 2.687	11-6266-33	2 5/8"	BT-J-161 & BT-J-162		
DMC1554	SET INCLUDES ALL 12 SOCKETS LISTED ABOVE AND DW75 DRIVE ROD.					

ADJUSTABLE JAM NUT WRENCH

The **JR700** adjustable jam nut wrench is a versatile tool for maintenance and low volume production. The rugged all steel construction makes this tool a good choice for heavy duty applications.

The tool may be adjusted to accommodate hex nuts from .75 inch to 3.25 inch (across flat) dimensions. The maximum working depth is 1.0 inch. This range accommodates most common connectors.

A standard 3/8 inch drive torque tool may be used in conjunction with this tool to limit the possibility of overtightening. If torque values require close tolerance accuracy, direct reading sockets (page 38) are recommended.

TORQUE CONVERSION CHART FOR JR700 TOOL USED WITH BT-ST-300D*

Diameter of Part Being Tightened	DESIRED TORQUE VALUE (in-lbs) ("D")								
	40	60	80	100	120	140	160	180	200
0.50"	22	33	45	56	67	78	89	100	111
0.75"	23	34	45	56	68	79	90	101	113
1.00"	23	34	45	57	68	80	91	102	114
1.50"	23	35	47	58	70	82	93	105	116
1.75"	24	35	47	59	71	83	94	106	118
2.00"	24	36	48	60	72	84	95	107	119
2.25"	24	36	48	60	73	85	97	109	121
2.50"	24	37	49	61	73	86	98	110	122
2.75"	25	37	50	62	74	87	99	111	124
3.00"	25	38	50	63	75	88	100	113	125
3.25"	25	38	51	63	76	89	101	114	127
		T	DRQUE	READIN	G ON IN	STRUM	IENT ("C	;")	

*FORMULA ON PAGE 36.

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CIRCULAR RING PLIERS





Durable hinge allows tool to open 180°.

Pads are replaceable.

TOOL PART	G	RIP RANGE*			
NUMBER	INCH	METRIC (mm)			
DRP8	0.56 to 0.59	14.224 to 14.986			
DRP9	0.62 to 0.65	15.748 to 16.51			
DRP10	0.67 to 0.70	17.018 to 17.78			
DRP11	0.74 to 0.77	18.796 to 19.558			
DRP12	0.80 to 0.83	20.32 to 21.082			
DRP13	0.85 to 0.88	21.59 to 22.352			
DRP14	0.89 to 0.92	22.606 to 23.368			
DRP16	1.05 to 1.08	26.67 to 27.432			
DRP18	1.11 to 1.14	28.194 to 28.956			
DRP20	1.27 to 1.30	32.258 to 33.02			
DRP22	1.39 to 1.42	35.306 to 36.068			
DRP24	1.49 to 1.52	37.846 to 38.608			
DRP26	1.61 to 1.64	40.894 to 41.656			
DRP28	1.89 to 1.92	48.006 to 48.768			
DMC1924	Set of all 14 DRP SERIES PL	IERS and 10 REPLACEMENT PADS			
DRP078R	REPLACEMENT PAD for all DRP SERIES PLIERS				

^{*}ON A SMOOTH SURFACE.

KNURLED SURFACES SLIGHTLY BELOW THIS RANGE ARE COMPATIBLE WITH THESE TOOLS.



CIRCULAR RING PLIERS

The DRP-XX circular ring pliers are specifically designed to grip circular connector and backshell components which would be deformed by other gripping methods. The nonmarring rubber jaw lining material is available in strip form and may be used to replace worn jaw inserts. It is held in place by interlocking fingers which are molded into the material.

The following chart defines the working diameters and the tools which are available in this series.

Replacement Pads for Circular Ring Pliers are available (P/N DRP-078R). This replacement pad is supplied as a 4.25" strip that must be cut to length needed.



SOFT JAW ADJUSTABLE PLIERS

The BT-SJ-468 soft jaw adjustable pliers are a handy addition to general maintenance tool stations. This tool can provide a reliable gripping function for assembly, disassembly, and positioning of circular and oval parts.

The soft jaw inserts are replaceable and may be ordered as separate parts (part number BT-SJ-468-1). This part number applies to an individual jaw (two pieces are required per tool).

The overall length is 9.5 inches and the approximate weight is .5 lb.

EMI/RFI BAND APPLICATION SYSTEM FOR .125 & .250 SHIELD TERMINATION BANDS



The termination of EMI/RFI shielding materials is a specialized science in today's aerospace wiring systems. Application tooling is a critical factor in the overall performance of the wiring system components.

DMC has worked closely with the world's leading connector accessory manufacturers to develop the necessary tooling and accessories to meet the stringent demands of aerospace and defense system contractors. The resulting products afford the user many benefits which include:

COMPATIBILITY with all currently available termination bands and systems.

RELIABILITY through the use of commercially proven components and tool design practice.

QUALITY and REPEATABILITY

which are assured by a tension system.

SERVICE AND CALIBRATION -

All tools produced by DMC are adjustable, and may be easily recalibrated by the user. Also, expendable components such as cut-off blades are available for simple replacement by the user.

LONG SERVICE LIFE -

Properly maintained band application tools will produce thousands of reliable terminations.

AFFORDABILITY – DMC tools continue to be the most cost effective method to produce reliable wiring system shield terminations.

THE PNEUMATIC BAND APPLICATION TOOL...

is a cost effective system that speeds production and improves ergonomic conditions which are present when manual tools are used. Band tension is precisely applied by a dependable pneumatic system which is consistent and repeatable.

The calibration system of the pneumatic band tool is adjustable, and can be checked by use of the calibration devices available from DMC.

The cutter blade and other components of the DMC Pneumatic Band tools are interchangeable with the DBS-1100 and DBS-1200 series hand tools. The rugged design and field replaceable blades make the PBT/PMBT series the best choice for production applications where EMI/RFI bands are used to terminate wire harness shielding.

THE HAND OPERATED BAND APPLICATION TOOL...

is an excellent choice for many production and maintenance operations. Like the power driven models, they too can be calibrated by the user to provide reliable terminations throughout the service life.

The lightweight construction and small "nose" profile enable the user to apply termination bands in even the tightest of working areas.

Models are available for .250 in. (6.350 mm) and .125 in. (3.175 mm) wide bands from all current suppliers.







DBS-1100 & DBS-1200 HAND OPERATED BAND APPLICATION TOOLS

The DBS series Hand Application Tools are constructed to survive the demands of production and maintenance use, and remain precisely adjusted to provide a quality band termination.

The tension-lock system gives the operator a positive indication when the precise tension has been applied.

DBS-1100

.250 Wide Band Application Tool

- Size and Weight: 5.5" x 7.5", .36 lbs.
- Calibration Range: 140–160 lbs.
- Cut-off blade: replaceable with DBS-1100-7

DBS-1200

.125 Wide Mini-Band Application Tool:

- Size and Weight: 5.5" x 7.5", .52 lbs.
- Calibration Range: 62-82 lbs.
- Cut-off blade: replaceable with DBS-1100-7



PBT1100 & PMBT1200 PNEUMATIC BAND APPLICATION TOOLS

The PBT & PMBT series Pneumatic Band Application Tools are lightweight, dependable, and easy to operate. Many of the components are interchangeable with the corresponding hand tool.

PBT1100

.250 Wide Band Application Tool

- Size and Weight: 8.75" L, 1.52 lbs.
- Calibration Range: 140–160 lbs.
- Hose Length: 10' Extended
- Cut-off blade: replaceable with DBS-1100-7

PMBT1200

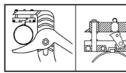
.125 Wide Mini-Band Application Tool

- Size and Weight: 8.75" L x 1.52 lbs.
- Calibration Range: 62-82 lbs.
- Hose Length: 10' Extended
- Cut-off blade: replaceable with DBS-1200-7



DBS-RO3 ROLL-OVER FOR .250 WIDE BANDS APPLICATION TOOL

The DMC Roll-Over Tool (Part No. **DBS-RO3**) is used to fold the extended band tab securely over the buckle. Experts agree that the "folded tab" method assures maximum strength and reliability. Like other DMC Band Application Tools, the Roll-Over Tool is compatible with all currently available bands.







DMC also provides the **DBS-R05** Roll-Over Tool for use with .125 wide Mini-Bands. This tool is similar to the DBS-RO3 in size and shape.

CALIBRATION OF EMI/RFI BAND TOOLS

All the DMC Hand and Pneumatic Band Application Tools may be calibrated to insure correct band tension. The **DBS-CG1 Calibration Instrument** will allow the operator to gage the exact tension produced by the tool.

A short piece of unused band material is fed into the tool far enough to fully engage the gripping mechanism. The other end is then inserted and latched into the calibration instrument. Full tension is exerted by the tool and read directly on the precision dial indicator portion of the calibration instrument. Simple adjustments can be made to the

tool as needed. A quick release mechanism

is provided to allow the operator to easily remove the tool from the calibration instrument. A free standing holding fixture is available (**DBS-CG1-F**) to aid the calibration process by securing the calibration instrument and banding tool in place.

Field Calibration Fixtures and Go/No-Go Gages

were developed to allow the user a quick means of checking calibration of band application tools in the field. A band is placed into the calibration fixture.

The band is drawn through the tool until the nose of the banding tool is firmly against the field calibration fixture. Once the full banding pressure has been applied, insert the "GO" side of the Gage into the verification slot of the field calibration fixture. If it does not insert freely, the tool is exerting excessive force. Likewise, if the NO-GO probe freely enters

the verification slot, the tool is below the minimum force, thus alerting the user that the tool is out of calibration.



EMI/RFI BAND APPLICATION SYSTEMFOR .125 & .250 SHIELD TERMINATION BANDS



BANDING TOOL KITS

DMC1379 – .250 Banding Tool Kit. This kit includes the tools necessary to install and remove termination bands, plus a total of 50, 1/4" terminator bands, packaged in a fiberglass case with pre-cut foam inserts and laminated instruction charts.

DMC60A – Complete EMI/RFI
Shielding Maintenance Repair System.
This kit includes a complete complement
of tools to install and remove shield
termination material and specialized tapes.
Instructions are included to guide the user
through all steps of repair from correct
tool selection, to set-up and operation
of tools and components. It is packaged
in a fiberglass case with foam inserts
for designated tool storage. It includes
calibration fixture and gauge.



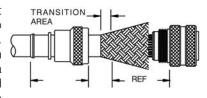
The **DBS-CG1-F** holding fixture secures the calibration instrument and banding tool in place during calibration. This fixture only works with the DBS-CG1 Calibration Instrument. (Banding tools and DBS-CG1 are sold separately.)

APPLICAT	ION TOOLS, ACCESSORIES AND COMPONENTS					
	.250 WIDTH BAND TOOLS					
DBS-1100	Hand Operated Band Application Tool					
DBS-1101	Hand Operated Band Application Tool Set (includes DBS-1100, DBS-R03)					
DBS-1102	Hand Operated Band Application Tool Set (includes DBS-1100, DBS-R03, DBS-CG2 & G691)					
DBS-1100-32	Calibration Adjustment Key					
DBS-1100-7	Replacement Blade for .250 Band Tools					
DBS-RO3	Roll-Over Tool for .250 Band Tab					
	.125 WIDTH MINI-BAND TOOLS					
DBS-1200	Hand Operated Mini Band Tool					
DBS-1201	Hand Operated Mini Band Application Tool Set (includes DBS-1200, DBS-R04)					
DBS-1202	Hand Operated Mini Band Application Tool Set (includes DBS-1200, DBS-R04, DBS-CG3 & G752)					
DBS-1100-7	Replacement Blade for .125 Band Tools					
DBS-RO5	Roll-Over Tool for .125 Band Tab					
PNE	JMATIC BAND TOOLS FOR .250 WIDTH BANDS					
PBT1100	Pneumatic Band Application Tool					
PNEUMATIC BAND TOOLS FOR .125 WIDTH BANDS						
PMBT1200 Pneumatic Band Application Tool						
	TOOL CALIBRATION INSTRUMENTATION					
DBS-CG1	Laboratory Calibration Instrument (all tools)					
DBS-CG1-F	DBS-CG1 Holding Fixture (Banding tool & DBS-CG1 not included)					
DBS-CG2	Field Calibration Fixture for DBS-1100					
G691	Go/No-Go Gage for DBS-CG2 Fixture					
DBS-CG2A	Calibration Set which includes DBS-CG2 & G691					
DBS-CG3	Field Calibration Fixture for DBS-1200					
G752	Go/No-Go Gage for DBS-CG3 Fixture					
DBS-CG3A	Calibration Set which includes DBS-CG3 & G752					
	BANDING APPLICATION KIT					
DMC1379	.250 Banding Tool Kit					
DMC60A	Complete EMI/RFI Shielding Maintenance/Repair System (.250 bands and tools)					
	BANDS & RINGS					
4-1380	.250 wide x 14.0 long EMI/RFI Band (Flat)*					
4-1553	.125 wide x 14.0 long EMI/RFI Band (Flat)*					
4-1376	.500 Dia. Split Ring Set					
4-1377	.750 Dia. Split Ring Set					
4-1378	1.00 Dia. Split Ring Set					
4-1379	1.50 Dia. Split Ring Set					

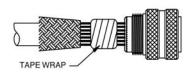
^{*} Band can also be supplied curled (contact factory)



Careful measurement should be made prior to installing the backshell. The outer jacket is then uniformly removed at a distance which would allow the braid to make



a comfortable transition onto the backshell termination area. This dimension will vary depending upon the differences between cable and backshell diameters or other application dependent factors.



The braid is then trimmed to a length which will allow it to extend 1 inch past the backshell termination platform. Then the braid is carefully folded rearward to

expose the wires which will be inside the backshell.

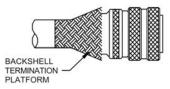
A sufficient number of wraps of self-vulcanizing tape (normally red in color) are applied over the wires to build up a diameter slightly less than the inside diameter of the backshell. Care should be taken not to apply tension to the contacts located in the outer perimeter of the connector.

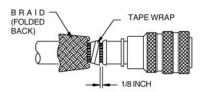
These layers of tape are followed by a minimum of one layer of Teflon tape which will prevent adhesion with the backshell and other components.

The backshell is then installed onto the connector, using a nonabrasive tool such as a strap wrench. The braid is then carefully moved from under the backshell. It is

important to retain the woven characteristics of the braid during this step.

Use self-vulcanizing tape or a preformed component to build up the area behind the platform





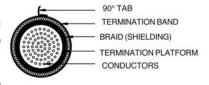
backshell. It is important that the braid is supported in the transition from the backshell rear diameter to the natural diameter of the wire bundle. Leave

approximately 1/8 inch spacing between the tape wrap and the backshell.

The braid is pushed into position over the backshell termination platform. Care must be taken to make sure the weave is uniform and no large "windows" are present. A shield termination



band is then loaded into the tool. The band is then slid over the connector/backshell assembly into a position of alignment with the



termination platform. Apply an adequate amount of pressure in line with the cable as it enters the backshell to allow the 1/8 inch space to be reduced to zero. The tool is then activated to the preset tension. The band is then bent sharply at the buckle approximately 90° then cut-off using the cut-off lever on the tool. If the band is uncurled for any reason, it must be double looped thru the buckle before termination.

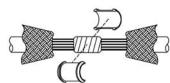
The 90° tab is then curled and folded back over the buckle using the rollover tool.

For braiding a non-jacket cable use fine point shears to trim the excess braid as

close to the connector side of the bands as possible. Do not leave any unsecured braid wires longer than 1/8 inch. Do not allow the trimmed wires to fall in any areas where they may present a foreign object damage hazard.

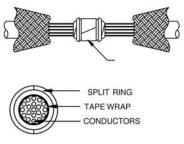
PROCEDURE FOR SPLICING

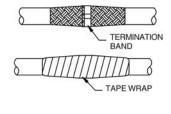
The jacket is present, and shield has been cut and



separated to expose the wires requiring service. Care must be taken to avoid damaging the insulation on internal wires. The required service is then completed.

The wire bundle is then protected by a few wraps of self-vulcanizing tape followed by 2–3 layers of teflon tape. An appropriate-size split-ring set is then selected and installed. One layer of teflon tape is applied over the split ring set to hold the halves in position while the next steps are being performed.





The braid is then overlapped across the split ring set. Be sure the braid ends protrude completely under the band in both directions.

Heat-shrinkable tape is then applied over the splice. When a jacketed cable is used, be sure the tape extends onto the jacket in both directions.

BETA ADAPTOR KITS

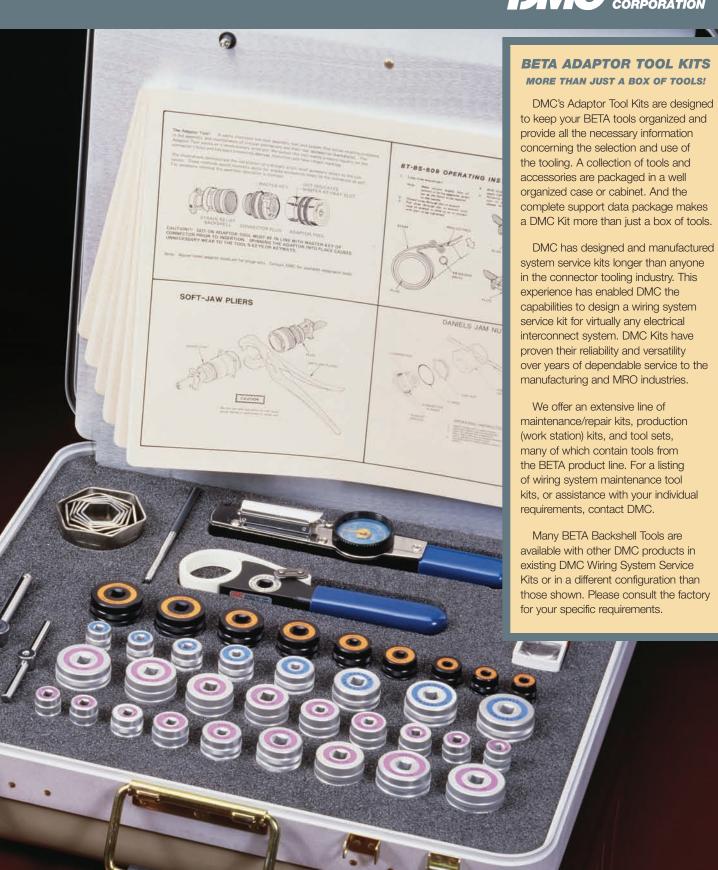
Kit configuration may vary from example shown. Configuration depends on application, user requirements, and packaging needs of the customer.



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AS85049 CONNECTOR ACCESSORIES QUICK REFERENCE GUIDE

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/1	Backshell, Environmental, Cable Sealing, Straight, Grounding (Without Strain Relief), Category 1C	AS50151 Solder Type, V Thread of MS310X, Classes A, B, C or K Connectors	6
AS85049/2	Backshell, Environmental, Cable Sealing, Straight, Category 1C	AS50151 Solder Type, V Thread of MS310X, Classes A, B, C or K Connectors	6
AS85049/3	Backshell, Cable Sealing, Straight, Category 1A	MIL-DTL-22992 Connectors, Classes C, J, and R	7
AS85049/4	Backshell, Cable Sealing, Straight, Step-Up, Category 1A	MIL-DTL-22992 Connectors, Classes C, J, and R	7
AS85049/5	Backshell, Cable Sealing, Straight, Step-Down, Category 1A	MIL-DTL-22992 Connectors, Classes C, J, and R	7
AS85049/6	Backshell, Environmental, Cable Sealing, 45°, Shield Termination, Category 1A	AS50151 Crimp, MIL-DTL-26482 Series 2, AS81703 Series 3, and MIL- DTL-83723 Series III Connectors	9, 20
AS85049/7	Backshell, Environmental, Cable Sealing, 45°, Category 1A	AS50151 Crimp, MIL-DTL-26482 Series 2, AS81703 Series 3, and MIL- DTL-83723 Series III Connectors	9, 20
AS85049/8	Backshell, Environmental, Cable Sealing, 90°, Shield Termination, Category 1A	AS50151 Crimp, MIL-DTL-26482 Series 2, AS81703 Series 3, and MIL- DTL-83723 Series III Connectors	9, 20
AS85049/9	Backshell, Environmental, Cable Sealing, 90°, Category 1A	AS50151 Crimp, MIL-DTL-26482 Series 2, AS81703 Series 3, and MIL- DTL-83723 Series III Connectors	9, 20

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/10	Backshell, Environmental, Cable Sealing, Straight, Shield Termination, Category 1A	AS50151 Crimp, MIL-DTL-26482 Series 2, AS81703 Series 3, and MIL- DTL-83723 Series III Connectors	9, 20
AS85049/11	Backshell, Environmental, Cable Sealing, Straight, Category 1A	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	9, 20
AS85049/14	Backshell, Straight, Non-Self- Locking and Self-Locking, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/15	Strain Relief, 45°, Non-Self- Locking and Self-Locking, Category 4C	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/16	Strain Relief, 90°, Non-Self- Locking and Self-Locking, Category 4C	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/17	Backshell, Environmental, Straight, Shield Termination, Category 2B	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/18	Backshell, Environmental, Straight, RFI/EMI, Category 2B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/19	Backshell, Nonenvironmental, Straight, RFI/EMI, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/20	Backshell, Straight, RFI, EMI, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/21	Backshell, Nonenvironmental, Straight, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/23	Backshell, Nonenvironmental, 45°, Shield Termination, Category 3A	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	9, 20
AS85049/24	Backshell, Nonenvironmental, 90°, Shield Termination, Category 3A	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	9, 20



Non-Environmental Right Angle Strain Relief Backshells

Right Angle Tie Strap Backshell Right Angle Environmental Backshell

Straight

Non-Environmental Strain Relief Backshell

Strain Relief Backshells with Shield Sockets



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SPECIFICATION	TITLE	APPLICATION	PAGE			
AS85049/25	Backshell, Nonenvironmental, Straight, Shield Termination, Category 3A	9, 20				
AS85049/26	Backshell, Nonenvironmental, Straight, Shield Termination, Category 3A	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	9, 20			
AS85049/27	Backshell, Nonenvironmental, Straight, Self-Locking and Non- Self-Locking, Category 3B	MIL-DTL-38999 Series I and II Connectors	12, 13			
AS85049/28	Backshell, Nonenvironmental, Straight, Shield Termination, Category 3B	MIL-DTL-83733 Connectors	N/A			
AS85049/29	Backshell, Nonenvironmental, Straight, Category 3B	Backshell, Nonenvironmental, MIL-DTL-38999 Series				
AS85049/30	Backshell, Nonenvironmental, Straight, Individual Shielded Wire Termination, Category 3B	12, 13				
AS85049/31	Backshell, Nonenvironmental, Straight, Self-Locking and Non- Self-Locking, Category 3B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	9, 20			
AS85049/32	Backshell, Nonenvironmental, 90°, Shield Termination, Category 7	MIL-DTL-38999 Series I and II Connectors	12, 13			
AS85049/33	Backshell, Nonenvironmental, Straight, Shield Termination, Category 7	MIL-DTL-38999 Series I and II Connectors	12, 13			
AS85049/34	Backshell, Nonenvironmental, Threaded Adapter, Category 7	MIL-DTL-26482 Series I Jam Nut Receptacle Connector (Inactive for New Design Equipment or Modification of Existing Equipment)	9			
AS85049/36	Backshell, Nonenvironmental, Straight, EMI/RFI Shield Termination, Category 3B	MIL-DTL-27599 Series 1 and MIL-DTL-38999 Series I and II Connectors	12, 14			
AS85049/37	Backshell, Nonenvironmental, Split 90°, EMI/RFI Shield Termination, Category 3B	MIL-DTL-38999 Series I and II Connectors	12, 13			

SPECIFICATION	TITLE	APPLICATION	PAGE			
AS85049/38	Strain Relief, Straight, Self- Locking and Non-Self-Locking Category 4C	MIL-DTL-38999 Series III and IV Connectors	14, 15			
AS85049/39	Strain Relief, 90°, Self-Locking and Non-Self-Locking Category 4C	MIL-DTL-38999 Series III and IV Connectors	14, 15			
AS85049/41	Nonenvironmental, Strain Relief, Straight, Category 4C					
AS85049/42	Nonenvironmental, Strain Relief, Straight, Category 4A	21 1				
AS85049/43	Strain Relief, Nonenvironmental, Self-Locking and Non-Self- Locking, 45°, Category 4B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20			
AS85049/44	Strain Relief, Straight, Category 4C	MIL-DTL-83733 Rectangular Connectors	N/A			
AS85049/45	Strain Relief, Straight, Nonmetallic, Category 4C	MIL-DTL-27599 Series I and MIL-DTL-38999 Series I and II Connectors	12, 13			
AS85049/46	Strain Relief, 90°, Nonmetallic, Category 4C	12, 13				
AS85049/47	Strain Relief, 90°, Self-Locking and Nonself-Locking, Category 4C	12, 13				
AS85049/48	Strain Relief, Straight, Category 7 MIL-DTL-24308 Rectangular Connectors					
AS85049/49	Strain Relief, Straight, Self- Locking and Nonself-Locking, Category 4C MIL-DTL-38999 Series I and Il Connectors		12, 13			
AS85049/50	Strain Relief, 90°, Category 7	MIL-DTL-24308 Rectangular Connectors	N/A			
AS85049/51	Strain Relief, Nonenvironmental, 90°, Self-Locking and Non- Self-Locking, Category 4B	6, 9, 20				



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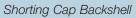
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AS85049 CONNECTOR ACCESSORIES QUICK REFERENCE GUIDE

SPECIFICATION	TITLE	APPLICATION	PAGE		
AS85049/52	Strain Relief, Nonenvironmental, Straight, Self-Locking and Non-Self-Locking, Category 4B AS50151 Crimp, MIL-DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors				
AS85049/53	Strain Relief, Nonenvironmental, Straight, Category 4C	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20		
AS85049/54	Strain Relief, Nonenvironmental, 45°, Category 4C	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors			
AS85049/55	Strain Relief, Nonenvironmental, 90°, Self-Locking and Non- Self-Locking, Category 4C	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20		
AS85049/56	Strain Relief, Straight, Category 4C	MIL-DTL-38999 Series I and II Connectors	12, 13		
AS85049/57	Strain Relief, 45°, Self-Locking and Nonself-Locking, Category 4C	MIL-DTL-38999 Series I and II Connectors	,		
AS85049/58	Ring, Potting Boot, Category 5	MIL-DTL-38999 Series I and II Connectors	12, 13		
AS85049/59	Adapter, Shrink Boot, Category 5	MIL-DTL-22992 Connectors, Classes C, J, and R	7		
AS85049/60	Adapter, Shrink Boot, Category 5	AS50151 Crimp, MIL-C-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	d		
AS85049/61	Ring, Potting Boot, Category 5	MIL-DTL-27599 Connectors	N/A		
AS85049/62	Adapter, Shrink Boot, Category 5	MIL-DTL-38999 Series I and II Connectors	12, 13		
AS85049/63	Strain Relief, 90°, Self-Locking and Nonself-Locking, Category 4C	MIL-DTL-38999 Series I and II Connectors	12, 13		
AS85049/64	Strain Relief, Split, Straight, Category 4C	MIL-DTL-38999 Series I and II Connectors	12, 13		

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/65	Strain Relief, Split 90°, Category 4C	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/69	Adapter, Shrink Boot, Category 5	14, 15	
AS85049/74	Potting Boot, Category 7	Use With AS85049/61 Potting Boot Ring	N/A
AS85049/75	Potting Boot, Category 7	Use With AS85049/58 Potting Boot Ring	N/A
AS85049/76	Backshell, Environmental, 90°, Shield Termination, Category 2B, Nonself-Locking	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/77	Backshell, Environmental, 45°, Shield Termination, Category 2B, Nonself-Locking	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/78	Backshell, Environmental, 45°, Shield Termination, Category 2B, Nonself-Locking	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/79	Backshell, Environmental, 90°, Shield Termination, Category 2B, Nonself-Locking	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/80	Dummy Contact, Sizes 12 and 8, Category 7 MIL-DTL-38998 Connectors		12, 13, 14, 15
AS85049/81	Seal Plug, Size 10, Category 7	MIL-DTL-38999 Connectors	12, 13, 14, 15
AS85049/82	Backshell, Straight, Self- Locking, Non Self-Locking, Shield Band Termination (RFI/EMI), Shrink Sleeve Accommodation, Category 3B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20
AS85049/83	Backshell, 45°, Self-Locking, Non Self-Locking, Shield Band Termination, (RFI/EMI), Shrink Sleeve Accommodation, Category 3B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20
AS85049/84	Backshell, 90°, Self-Locking, Non Self-Locking, Shield Band Termination, (RFI/EMI), Shrink Sleeve Accommodation, Category 3B	6, 9, 20	
AS85049/85	Backshell, Straight, Self- Locking, Non Self-Locking, Shield Band Termination, (RFI/EMI), Shrink Boot Accommodation, Category 3B	MIL-DTL-38999 Series I and II Connectors	12, 13









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SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/86	Backshell, 45°, Self-Locking, Non Self-Locking, Shield Band Termination, (RFI/EMI), Shrink Sleeve Accommodation, Category 3B	12, 13	
AS85049/87	Backshell, 90°, Self-Locking, Non Self-Locking, Shield Band Termination, (RFI/EMI), Shrink Sleeve Accommodation, Category 3B	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/88	Backshell, Straight, Self- Locking, Non Self-Locking, Shield Band Termination, (RFI/EMI), Shrink Boot Accommodation, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
A\$85049/89	Backshell, 45°, Self- Locking, Non Self- Locking, Shield Band Termination, (RFI/ EMI), Shrink Sleeve Accommodation, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
A\$85049/90	Backshell, 90°, Self- Locking, Non Self- Locking, Shield Band Termination, (RFI/ EMI), Shrink Sleeve Accommodation, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/91	Strain Relief, Straight, Self-Locking, Category 4C	MIL-DTL-38999 (Composite) Series III and IV Connectors	14, 15
AS85049/92	Strain Relief, 90°, Self- Locking, Category 4C	14, 15	
AS85049/93	Termination, Shield, Split Support Ring, Composite, Nonenvironmental, Straight, Category 7	N/A	
AS85049/94	Mounting Device, Flange Type, Full Perimeter, Medium/Light Duty, Category 7	N/A	
AS85049/95	Mounting Device, Flange Type, 3/4 Mounting Perimeter, Medium/Light Duty, Category 7	General Use	N/A

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/96	Mounting Device, Flange Type, 1/4 Mounting Perimeter, Medium/Light Duty, Category 7	General Use	N/A
AS85049/103	RFI/EMI, Electrical, Strain Relief, Straight, Self-Locking, Category 3C	MIL-DTL-38999 (Composite) Series III and IV Connectors	14, 15
AS85049/104	RFI/EMI, Electrical, Strain Relief, 45°, Self-Locking, Category 3C	MIL-DTL-38999 (Composite) Series III and IV Connectors	14, 15
AS85049/105	RFI/EMI, Electrical, Strain Relief, 90°, Self-Locking, Category 3C	MIL-DTL-38999 (Composite) Series III and IV Connectors	14, 15
AS85049/109	Backshell, Straight, Non Self-Locking, Self-Locking, Pre- Attached Shield Termination (RFI/EMI), Boot Accommodation, Category 3B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20
AS85049/111	Backshell, 90°, Non Self- Locking, Self-Locking, Pre- Attached Shield Termination (RFI/EMI), Boot Accommodation, Category 3B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20
AS85049/112	Backshell, Straight, Non Self-Locking, Self-Locking, Pre- Attached Shield Termination (RFI/EMI), Boot Accommodation, Category 3B	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/114	Backshell, 90°, Non Self- Locking, Self-Locking, Pre- Attached Shield Termination (RFI/EMI), Boot Accommodation, Category 3B	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/115	Backshell, Straight, Non Self-Locking, Self-Locking, Pre- Attached Shield Termination (RFI/EMI), Boot Accommodation, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/117	Backshell, 90°, Non Self- Locking, Self-Locking, Pre- Attached Shield Termination (RFI/EMI), Boot Accommodation, Category 3B	MIL-DTL-38999 Series III and IV Connectors	14, 15



DMC does NOT provide connectors, backshells, accessories, or wiring components. Parts shown here are for reference only.

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AS85049 CONNECTOR ACCESSORIES QUICK REFERENCE GUIDE

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/118	Backshell, Strain Relief, Straight, Self-Locking, Non Self-Locking, Category 4B	6, 9, 20	
A\$85049/120	Backshell, Strain Relief, 90°, Self-Locking, Non Self-Locking, Category 4B	AS50151 Crimp, MIL- DTL-26482 Series 2, AS81703 Series 3, and MIL-DTL-83723 Series III Connectors	6, 9, 20
AS85049/121	Backshell, Strain Relief, Straight, Self-Locking, Non Self-Locking, Category 4C	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/123	Backshell, Strain Relief, 90°, Self-Locking, Non Self-Locking, Category 4C	MIL-DTL-38999 Series I and II Connectors	12, 13
AS85049/124	Backshell, Strain Relief, Straight, Self-Locking, Non Self-Locking, Category 4C	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/126	Backshell, Strain Relief, 90°, Self-Locking, Non Self-Locking, Category 4C	MIL-DTL-38999 Series III and IV Connectors	14, 15
AS85049/127	Bushing Strip, Category 7	Use With SAE AS85049/118, /120, /121, /123, /124, and /126 Accessories	N/A
AS85049/128	Backshell, Shield Band, Category 7	Use With SAE AS85049/82 - /90, /109 - /117 Accessories, and General Use	42 - 45

SPECIFICATION	TITLE	APPLICATION	PAGE			
AS85049/130	Gasket Material, Conductive, Non Conductive, Flange Mount, Category 7	N/A				
AS85049/131	Connector Accessories, Fiber Optic, Straight, Self-Locking, Category 3B MIL-DTL-38999 Series III and AS5590/1 Connectors					
AS85049/132	Connector Accessories, Fiber Optic, 45°, Self-Locking, Category 3B MIL-DTL-38999 Series Ill and AS5590/1 Connectors					
AS85049/133	Connector Accessories, Fiber Optic, 90°, Self-Locking, Category 3B	MIL-DTL-38999 Series III and AS5590/1 Connectors	14			
AS85049/134	Connector Accessories, Fiber Optic, Filler Plug, Category 7	Fiber Optic Connectors and Systems	N/A			
AS85049/135	Connector Accessories, Fiber Optic, Split, Straight, Self- Locking, Category 3B	MIL-DTL-38999 Series III and AS5590/1 Connectors	14			
AS85049/136	Connector Accessories, Fiber Optic, Split, 45°, Self-Locking, Category 3B	MIL-DTL-38999 Series III and AS5590/1 Connectors	14			
AS85049/137	Connector Accessories, Fiber Optic, Split, 90°, Self-Locking, Category 3B	MIL-DTL-38999 Series III and AS5590/1 Connectors	14			
AS85049/138	Cap, Dust, Plastic, Category 9	General Use	N/A			
AS85049//139	Bushing, Cable Clamp to Cable, Telescoping For AS85049 Cable Clamps, Category 9	9				
AS85049/140	Boots, Heat-Shrinkable, General Use Straight, Category 9					
AS85049/141	Boots, Heat-Shrinkable, 90°, General Use Category 9					
AS85049/142	Boots & Sleeves, Transitions, Heat-Shrinkable, Category 9	General Use	N/A			



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SUGGESTED TORQUE VALUES



Daniels Manufacturing Corp takes no responsibility for the suggested torque values stated on this page. They were obtained from members of SAE Technical Standards Committee (AE-8C1, Connectors and Accessories), and will be published in a technical standard which is under development in the committee. If you need more information, contact DMC for the latest status on the ARP***** Torque for Wiring System Components Standard.

Torque values used to assemble connectors, backshells, and other wiring system components are the responsibility of the user/installer to determine the best torque range for the application. It is also the responsibility of the user/installer to select the appropriate tool for the work and the user conditions/environment.

CIRCULAR ELECTRICAL CONNECTOR ACCESSORIES SUGGESTED TORQUE VALUES						
SHELL SIZES	GROUP 1 (±5 IN-LBS) Light & Medium Duty AS50151 (MS3100 Series) MIL-DTL-26482 Series I MIL-DTL-26500 MIL-DTL-27599 MIL-DTL-38999 Series I, II MIL-C-81511 Series I, II, III, IV MIL-DTL-81703 Series I	GROUP 2 (±5 IN-LBS) Heavy Duty AS50151 (MS3400 Series) MIL-DTL-22992 MIL-DTL-26482 Series II MIL-DTL-38999 Series III, IV MIL-DTL-83793 Series III MIL-DTL-83723 Series I, II, III				
8, 9, A	40*	56				
3, 10, 10SL, 11, B	40*	76				
7, 12, 12S, 13, C	40	108				
14, 14S, 15, D	40	116				
16, 16S, 17, E	40	116				
18, 19, 27, F	40	116				
20, 21, 37, G	80	136				
22, 23, H	80	136				
24, 25, 61, J	80	136				
28, 29	120	148				
32, 33	120	148				
36	120	148				
40	170	164				
44	170	164				
48	170	164				

*Indicates	3 3	35	Inch-F	oun	ds for	compo	site	coupli	ng i	nut.	

NOTES: 1. Group 1 values based on 80% of MIL-DTL-85049 light duty thread strength.

CABLE CLAMP SCREW SUGGESTED TORQUE VALUES					
SCREW SIZE	TORQUE (+/5 IN-LBS)				
2-56	2				
4-40	4				
6-32	6				
8-32	8				
10-32	10				
.250-20	12				
	.,				

JAM NUT INSTALLATION SUGGESTED TORQUE VALUES				
SHELL SIZE	INCH-POUNDS ± 5%			
10	95			
12	110			
14	140			
16	170			
18	195			
20	215			
22	235			
24	260			

CAUTION: Over tightening (Torque) connectors, backshells, and other wiring system components can damage threads, metal or composite structure, or rubber components, and cause them to fail. Under-tightening (Torque) wiring system components can cause the components to loosen during use and fail.

Tightening or loosening system components beyond the specified range of a torque wrench may damage a torque wrench, and affect its accuracy and repeatability.

NOTE: For additional information about torque calculation, see page 36.

^{2.} Use Group 1 values for composite connector accessories.

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NATIONAL STOCK NUMBERS FOR BETA™ SERIES TOOLING

DMC P/N	NSN P/N		DMC P/N	NSN P/N	DMC P/N	NSN P/N	DMC P/N	NSN P/N
BT-AT-1500	5120-01-376-9839	-	CM288-33B	5120-01-377-4586	CM389S-8	5120-01-377-1273	CM5015R-32	5120-01-377-1333
BT-BS-601	5120-01-335-8841		CM288R-11A	5120-01-377-4603	CM389T-11A	5120-01-377-1302	CM5015R-36	5120-01-377-1298
BT-BS-609	5120-01-335-8842		CM288R-11B	5120-01-377-4534	CM389T-11B	5120-01-377-1178	CM5015R-40	5120-01-377-1316
BT-BS-610	5120-01-335-8843		CM288R-13A	5120-01-377-4545	CM389T-13A	5120-01-377-1215	CM5015R-44	5120-01-377-1202
BT-BS-611	5120-01-335-8844		CM288R-13B	5120-01-377-1327	CM389T-13B	5120-01-377-1297	CM5015R-48	5120-01-379-0200
BT-BS-618	5120-01-335-8845		CM288R-15A	5120-01-377-1269	CM389T-15A	5120-01-377-1172	CM5015R-8	5120-01-377-1238
BT-BS-625	5120-01-335-8846		CM288R-15B	5120-01-379-0154	CM389T-15B	5120-01-377-1200	CM815L-10A	5120-01-377-1312
BT-BS-630	5120-01-335-8847		CM288R-17A	5120-01-377-1182	CM389T-17A	5120-01-379-0146	CM815L-10B	5120-01-377-1264
BT-J-132	5120-01-368-4132		CM288R-17B	5120-01-377-1321	CM389T-17B	5120-01-377-1263	CM815L-14A	5120-01-377-1169
BT-ST-701	5120-01-335-8179		CM288R-19A	5120-01-377-1301	CM389T-19A	5120-01-377-4604	CM815L-14B	5120-01-377-1328
BT-ST-725	5120-01-335-8177		CM288R-19B	5120-01-377-1314	CM389T-19B	5120-01-377-1311	CM815L-16A	5120-01-377-1170
BT-ST-751	5120-01-335-8178		CM288R-23A	5120-01-377-1227	CM389T-21A	5120-01-377-1207	CM815L-16B	5120-01-377-4583
CM229-12	5120-01-377-1198		CM288R-23B	5120-01-377-1251	CM389T-21B	5120-01-377-1224	CM815L-18A	5120-01-377-4530
CM229-14	5120-01-377-1250		CM288R-25A	5120-01-377-1294	CM389T-23A	5120-01-377-1245	CM815L-18B	5120-01-377-4567
CM229-16	5120-01-377-1284		CM288R-25B	5120-01-377-1171	CM389T-23B	5120-01-377-1158	CM815L-20A	5120-01-377-1335
CM229-18	5120-01-377-1157		CM288R-29A	5120-01-377-1197	CM389T-25A	5120-01-255-7893	CM815L-20B	5120-01-377-1189
CM229-20	5120-01-377-4529		CM288R-29B	5120-01-377-1240	CM389T-25B	5120-01-377-1320	CM815L-22A	5120-01-377-4553
CM229-22	5120-01-377-1324		CM288R-33A	5120-01-377-4523	CM389T-9A	5120-01-377-1230	CM815L-22B	5120-01-377-4570
CM229-24	5120-01-377-1257		CM288R-33B	5120-01-377-1318	CM389T-9B	5120-01-379-0194	CM815L-24A	5120-01-377-1334
CM229-36	5120-01-377-1272		CM389B-11	5120-01-377-1234	CM389TR-11A	5120-01-377-1288	CM815L-24B	5120-01-377-4508
CM229-40	5120-01-377-4507		CM389B-13	5120-01-368-4117	CM389TR-11B	5120-01-379-0139	CM815L-8A	5120-01-377-4595
CM229L-28	5120-01-377-1319		CM389B-15	5120-01-368-4133	CM389TR-13A	5120-01-377-1252	CM815L-8B	5120-01-377-4543
CM229L-32	5120-01-377-1223		CM389B-17	5120-01-377-1261	CM389TR-13B	5120-01-379-0171	CM815L-10A	5120-01-377-4569
CM229L-44	5120-01-377-4578		CM389B-19	5120-01-377-1305	CM389TR-15A	5120-01-377-1188	CM815L-10B	5120-01-377-4519
CM229L-48	5120-01-377-1287		CM389B-21	5120-01-377-1208	CM389TR-15B	5120-01-379-0140	CM815S-14A	5120-01-377-4552
CM229L-52	5120-01-377-1187		CM389B-23	5120-01-377-1236	CM389TR-17A	5120-01-379-0193	CM815S-14B	5120-01-377-4581
CM264-10	5120-01-377-4551		CM389B-25	5120-01-377-1152	CM389TR-17B	5120-01-379-0191	CM815S-16A	5120-01-377-1308
CM264-12	5120-01-368-4118		CM389BR-11	5120-01-377-1186	CM389TR-19A	5120-01-379-0172	CM815S-16B	5120-01-377-1216
CM264-14	5120-01-368-4119		CM389BR-13	5120-01-377-1210	CM389TR-19B	5120-01-379-0161	CM815S-18A	5120-01-377-1310
CM264-16	5120-01-368-4120		CM389BR-15	5120-01-377-1244	CM389TR-21A	5120-01-379-0142	CM815S-18B	5120-01-377-1211
CM264-18	5120-01-377-4564		CM389BR-17	5120-01-377-1300	CM389TR-21B	5120-01-379-0180	CM815S-8	5120-01-377-1331
CM264-20	5120-01-368-4121		CM389BR-19	5120-01-377-1181	CM389TR-23A	5120-01-379-0173	CM837-10A	5120-01-368-4124
CM264-22	5120-01-377-4584		CM389BR-21	5120-01-377-1214	CM389TR-23B	5120-01-377-4535	CM837-10B	5120-01-377-1296
CM264-24	5120-01-377-4513		CM389BR-23	5120-01-377-1190	CM389TR-25A	5120-01-377-4605	CM837-12A	5120-01-377-1313
CM264-8	5120-01-377-1212		CM389BR-25	5120-01-377-1249	CM389TR-25B	5120-01-377-4568	CM837-12B	5120-01-377-1307
CM264R-10	5120-01-377-1233		CM389L-11	5120-01-377-1156	CM389TR-9A	5120-01-377-4600	CM837-14A	5120-01-368-4125
CM264R-12	5120-01-368-4123		CM389L-13	5120-01-377-1192	CM389TR-9B	5120-01-377-4527	CM837-14B	5120-01-377-1193
CM264R-14	5120-01-368-4122		CM389L-15	5120-01-377-1225	CM5015-10	5120-01-377-4562	CM837-16A	5120-01-368-4126
CM264R-16	5120-01-377-1256		CM389L-17	5120-01-377-1266	CM5015-12	5120-01-377-4602	CM837-16B	5120-01-377-1231
CM264R-18	5120-01-377-1291		CM389L-19	5120-01-377-1151	CM5015-14	5120-01-377-4536	CM837-18A	5120-01-368-4127
CM264R-20	5120-01-377-1149		CM389L-21	5120-01-377-1180	CM5015-16	5120-01-377-4547	CM837-18B	5120-01-377-1260
CM264R-22	5120-01-377-1203		CM389L-23	5120-01-368-4143	CM5015-18	5120-01-368-4147	CM837-20A	5120-01-368-4128
CM264R-24	5120-01-377-1222		CM389L-25	5120-01-368-4142	CM5015-20	5120-01-377-4587	CM837-20B	5120-01-377-1285
CM264R-8	5120-01-377-1239		CM389L-9	5120-01-377-1226	CM5015-22	5120-01-377-4526	CM837-22A	5120-01-368-4131
CM288-11A	5120-01-377-1271		CM389LR-11	5120-01-377-1259	CM5015-24	5120-01-377-4559	CM837-22B	5120-01-368-4129
CM288-11B	5120-01-377-1150		CM389LR-13	5120-01-377-1292	CM5015-28	5120-01-368-4146	CM837-24A	5120-01-368-4130
CM288-13A	5120-01-377-1179		CM389LR-15	5120-01-377-1161	CM5015-32	5120-01-377-4588	CM837-24B	5120-01-377-1162
CM288-13B	5120-01-377-1204		CM389LR-17	5120-01-377-1213	CM5015-36	5120-01-377-4518	CM837-8A	5120-01-377-1194
CM288-15A	5120-01-377-1235		CM389LR-19	5120-01-377-1267	CM5015-40	5120-01-377-1209	CM837-8B	5120-01-377-4560
CM288-15B	5120-01-377-1258		CM389LR-21	5120-01-377-1329	CM5015-44	5120-01-377-4574	CM837-8C	5120-01-377-1330
CM288-17A	5120-01-377-1332		CM389LR-23	5120-01-368-4145	CM5015-48	5120-01-377-1306	CM837-8D	5120-01-377-1147
CM288-17B	5120-01-377-1177		CM389LR-25	5120-01-368-4144	CM5015-8	5120-01-377-1201	CM837RB-10	5120-01-377-4571
CM288-19A	5120-01-377-4548		CM389LR-9	5120-01-377-1295	CM5015R-10	5120-01-377-4579	CM837RB-12	5120-01-368-4135
CM288-19B	5120-01-377-4565		CM389S-10	5120-01-377-4549	CM5015R-12	5120-01-377-4506	CM837RB-14	5120-01-368-4136
CM288-23A	5120-01-377-4609		CM389S-12	5120-01-377-4573	CM5015R-14	5120-01-368-4134	CM837RB-16	5120-01-368-4137
CM288-23B	5120-01-377-4524		CM389S-14	5120-01-377-1309	CM5015R-16	5120-01-377-1315	CM837RB-18	5120-01-368-4138
CM288-25A	5120-01-377-1326		CM389S-16	5120-01-377-1183	CM5015R-18	5120-01-377-1217	CM837RB-20	5120-01-368-4139
CM288-25B	5120-01-377-1278		CM389S-18	5120-01-377-1323	CM5015R-20	5120-01-377-1253	CM837RB-22	5120-01-368-4140
CM288-29A	5120-01-377-4514		CM389S-20	5120-01-377-1268	CM5015R-22	5120-01-368-4149	CM837RB-24	5120-01-368-4141
CM288-29B	5120-01-377-1317		CM389S-22	5120-01-377-4598	CM5015R-24	5120-01-410-7026	CM837RB-8	5120-01-377-1185
CM288-33A	5120-01-377-1243		CM389S-24	5120-01-377-1325	CM5015R-28	5120-01-377-1218		
CM288-23A CM288-23B CM288-25A CM288-25B CM288-29A CM288-29B	5120-01-377-4609 5120-01-377-4524 5120-01-377-1326 5120-01-377-1278 5120-01-377-4514 5120-01-377-1317		CM389S-12 CM389S-14 CM389S-16 CM389S-18 CM389S-20 CM389S-22	5120-01-377-4573 5120-01-377-1309 5120-01-377-1183 5120-01-377-1323 5120-01-377-1268 5120-01-377-4598	CM5015R-14 CM5015R-16 CM5015R-18 CM5015R-20 CM5015R-22 CM5015R-22	5120-01-368-4134 5120-01-377-1315 5120-01-377-1217 5120-01-377-1253 5120-01-368-4149 5120-01-410-7026	CM837RB-16 CM837RB-18 CM837RB-20 CM837RB-22 CM837RB-24	5120-01-368 5120-01-368 5120-01-368 5120-01-368 5120-01-368

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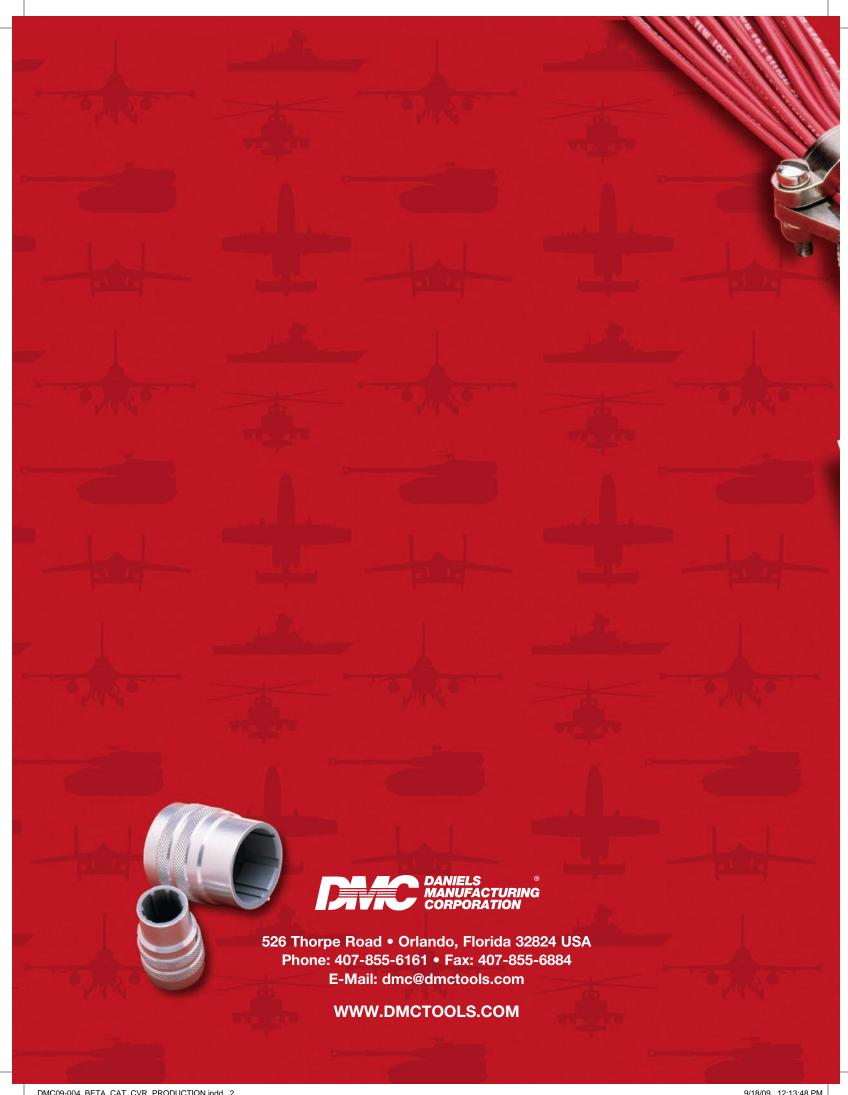
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