

BETA

BACKSHELL / ACCESSORY / TOOLING GUIDE



DMC DANIELS
MANUFACTURING
CORPORATION

An ISO9001:2015 and AS9100D Registered Company



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 over seven decades 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 toward 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 assist in answering technical questions, processing orders for complete kits and individual components, designing new service kits, and modifying existing kits.

DMC is an ISO 9100:2015 and AS9100D 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**

ADAPTOR TOOLS INTRODUCTION



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 keying 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.

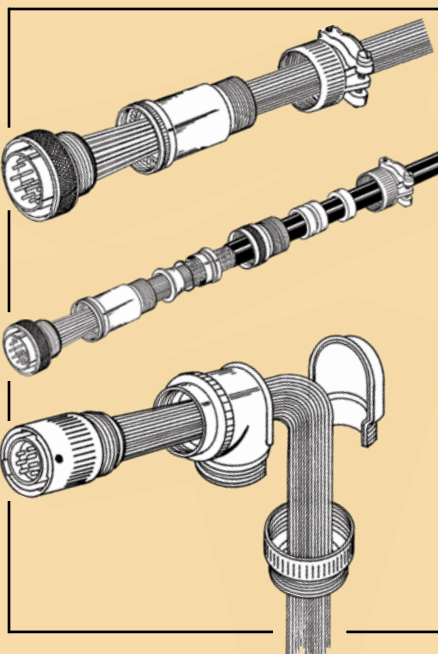
STANDARD SQUARE DRIVE MOUNTING

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.

QUICK REFERENCE TOOLING GUIDE

CONNECTOR IDENTIFICATION	ADAPTOR TOOL SETS		ADAPTOR LABEL	PAGE
	PLUG	RECEPTACLE		
AS50151 (MIL-C-5015)	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 II & 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
2M801/801	CM-S-801	CM-S-801R	N/A	23
2M803/803	CM-S-803	CM-S-803R	N/A	26
2M804/804	CM-S-804	CM-S-804R	N/A	28
2M805/805	CM-S-805	CM-S-805R	N/A	31

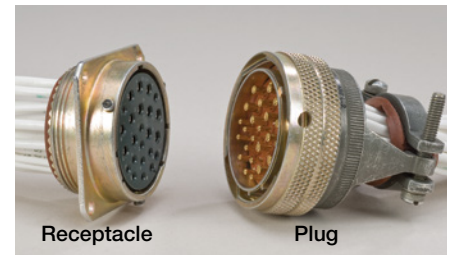
*BAYONET COUPLINGS ONLY – THREADED RECEPTACLE ADAPTOR SETS ARE NOT AVAILABLE FOR RECEPT.
MATERIAL: ALUMINUM - STEEL TOOLING IS AVAILABLE. CHECK WITH DMC FOR DETAILS.

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



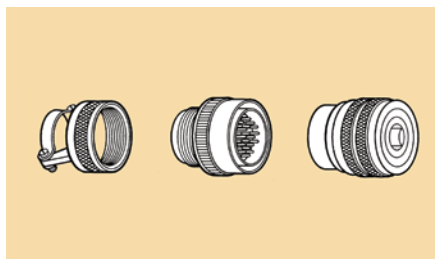
BETA SYSTEMS UTILIZATION

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



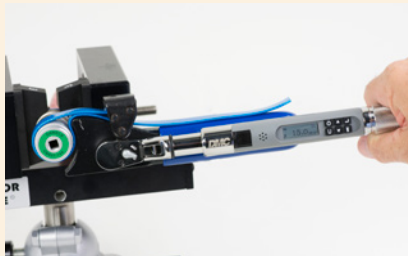
Strap wrench, strain relief, connector

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.



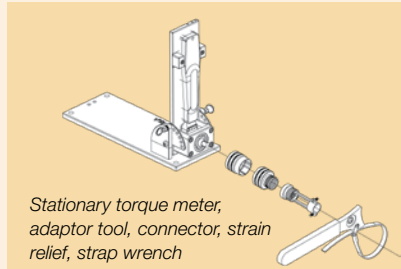
Digital torque wrench, adaptor, connector, strap wrench



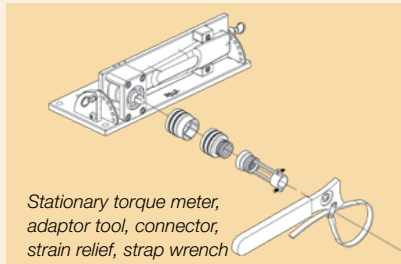
Digital torque wrench, strap wrench, connector, vise

If a stationary torque meter is needed, the digital torque wrench can be placed in a stationary 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.

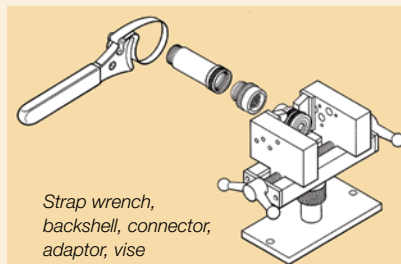


Stationary torque meter, adaptor tool, connector, strain relief, strap wrench



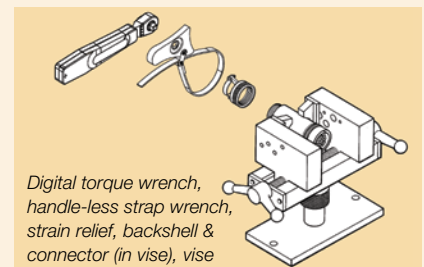
Stationary torque meter, adaptor tool, connector, strain relief, strap wrench

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.



Strap wrench, backshell, connector, adaptor, vise

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 wrench. Thus, the correct torque can be applied to the backshell segments without affecting the torque value already applied to prior connector/accessory components.

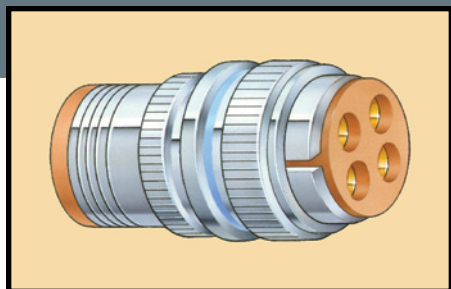


Digital torque wrench, handle-less strap wrench, strain relief, backshell & connector (in vise), vise

Note: For recommended torque values for connector accessories see the current revision of SAE AIR6151.

AS50151

SERIES MS3100, MS3400 & MS3450



Straight Plug Shown

MANUFACTURER:

AERO ELECTRIC
AMPHENOL

AMPHENOL/MATRIX
GLASSEAL
HERMETIC SEAL CORP.
ITT CANNON

ARRAY
SPACECRAFT
GLENAIR
CORSAIR
ELECSYS
J-TECH

SERIES:

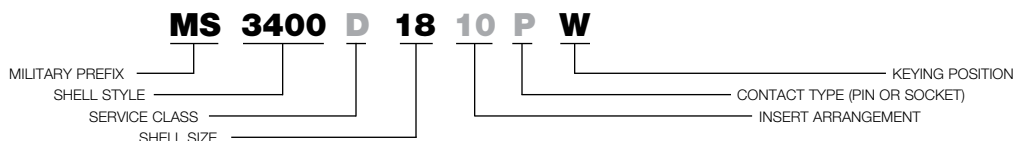
AE501, AE55, AE502, AE723
69, 72, 97, 157, 172, 173, 179, 208, 238 246
BT-M, BT-RA, HT, SCP, TBF, 10-72, 10-214, 10-244, 10-741,
10-747, 10-873, 10-874, 5015
MFR, M723, 944, 981
GSP
HS06, S*A-2000, 2000
BFH, BFR, CA, CA-EA, CA-EB, CA-HR, CA-KE, CA-RX, CV, CVA,
EX-A, FRA, FRF, FVA, FVF, FW, GS, MR, TBF, TBFH, WFS
AC
RJ, SC
650B, 660
CJ
D, DJ, DS, L, W, U
D, DJ, DS, DJS, W, L, U, JT

SPECIFICATIONS:

COUPLING METHOD: THREADED (MS3107,
MS3507 QUICK
DISCONNECT)
KEYING POSITIONS: BLANK (NORMAL),
W, X, Y, Z
ALTERNATE KEYING
METHOD: 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



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS3106 /Straight	8	ALL	CM5015-8	CHROME
MS3107 /Quick disconnect	10	ALL	CM5015-10	CHROME
MS3108 /90° angle	12	ALL	CM5015-12	CHROME
MS3436 /Straight	14	ALL	CM5015-14	CHROME
MS3507 /Quick disconnect	16	ALL	CM5015-16	CHROME
MS25183 /Straight, potting seal	18	ALL	CM5015-18	CHROME
MS25183A /Straight, potting seal, with ground lug	20	ALL	CM5015-20	CHROME
MS3406 /Straight	22	ALL	CM5015-22	CHROME
MS3408 /90° angle	24	ALL	CM5015-24	CHROME
MS3409 /45° angle	28	ALL	CM5015-28	CHROME
MS3456 /Straight	32	ALL	CM5015-32	CHROME
MS3459 /Straight self-locking coupling nut	36	ALL	CM5015-36	CHROME
	40	ALL	CM5015-40	CHROME
	44	ALL	CM5015-40	CHROME
	48	ALL	CM5015-48	CHROME

RECEPTACLE (STATIONARY PORTION)

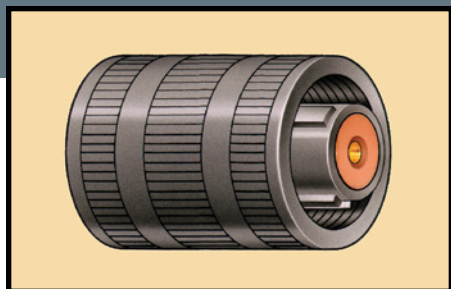
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS3100 /Wall mount	8	ALL	CM5015R-8	CHROME
MS3101 /In-line	10	ALL	CM5015R-10	CHROME
MS3102 /Box mount	12	ALL	CM5015R-12	CHROME
MS3103 /Wall mount, potting seal	14	ALL	CM5015R-14	CHROME
MS3142 /Box mount, hermetic seal	16	ALL	CM5015R-16	CHROME
MS3143 /Solder mount, hermetic seal	18	ALL	CM5015R-18	CHROME
MS3400 /Wall mount	20	ALL	CM5015R-20	CHROME
MS3401 /In-line	22	ALL	CM5015R-22	CHROME
MS3402 /Box mount	24	ALL	CM5015R-24	CHROME
MS3404 /*Jam nut	28	ALL	CM5015R-28	CHROME
MS3412 /Box mount, threaded rear skirt	32	ALL	CM5015R-32	CHROME
MS3450 /Wall mount	36	ALL	CM5015R-36	CHROME
MS3451 /In-line	40	ALL	CM5015R-40	CHROME
MS3452 /Box mount	44	ALL	CM5015R-40	CHROME
MS3454 /*Jam nut	48	ALL	CM5015R-48	CHROME

*Consult DMC for "SL" Series.

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

ADAPTOR 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

MIL-DTL-22992 CLASS C, J & R



Plug Shown

MANUFACTURER:
AMPHENOL

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

SPECIFICATIONS:

COUPLING METHOD: QUICK DISCONNECT –
THREADED COUPLING
RINGS

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

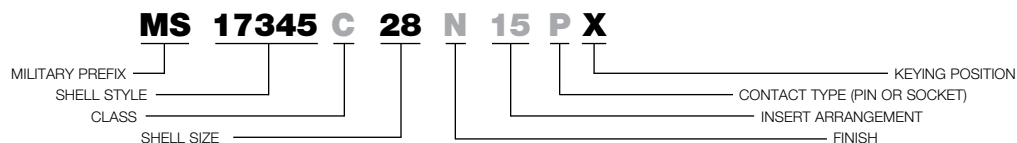
**ALTERNATE KEYING
METHOD:** ROTATION OF INSERT
WITHIN SHELL – KEYS
REMAIN STATIONARY

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)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS17344 /Plug	12	ALL	CM229-12	BROWN
	14	ALL	CM229-14	BROWN
	16	ALL	CM229-16	BROWN
	18	ALL	CM229-18	BROWN
	20	ALL	CM229-20	BROWN
	22	ALL	CM229-22	BROWN
	24	ALL	CM229-22	BROWN
	36	ALL	CM229-36	BROWN
	40	ALL	CM229-40	BROWN

RECEPTACLE (STATIONARY PORTION)

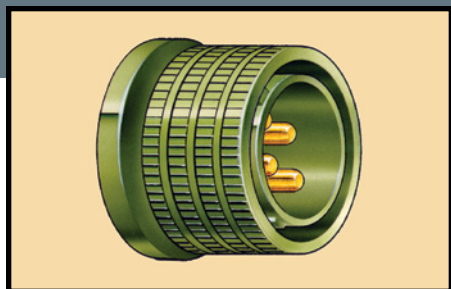
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS17343 /Wall mount	12	-	N / A	-
MS17345 /In-line	14	-	N / A	-
MS17346 /Box mount	16	-	N / A	-
MS17347 /Jam nut wall mount	18	-	N / A	-
MS17348 /Jam nut box mount	20	-	N / A	-
	22	-	N / A	-
	24	-	N / A	-
	32	-	N / A	-
	36	-	N / A	-
	40	-	N / A	-

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

NA (Not available)

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

MIL-DTL-22992 CLASS L



Straight Plug Shown

MANUFACTURER:
AMPHENOL
ROBERT TECHNOLOGIES

SERIES:
ALQWLD, 229, 10-473, MHD
RT905

COUPLING METHOD: QUICK DISCONNECT –
THREADED COUPLING
RINGS

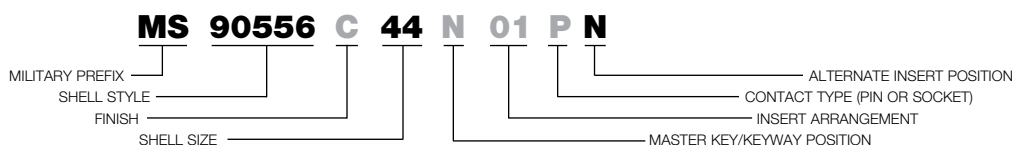
KEYING POSITIONS: N (NORMAL), W, X, Y
ALTERNATE KEYING
METHOD: ROTATION OF INSERT
WITHIN SHELL – KEYS
REMAIN STATIONARY

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)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS90556 /Straight	28	ALL	CM229L-28	BLACK
MS90558 /Wall mount	32	ALL	CM229L-32	BLACK
	44	ALL	CM229L-44	BLACK
	48	ALL	CM229L-48	BLACK
	52	ALL	CM229L-52	BLACK

RECEPTACLE (STATIONARY PORTION)

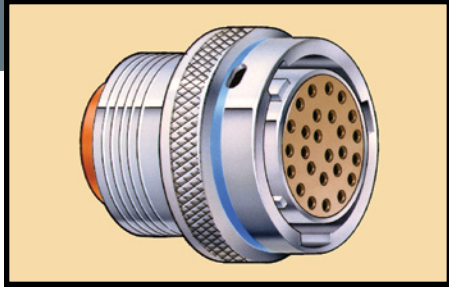
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS90555 /Wall mount	28	-	N / A	-
MS90557 /In-line	32	-	N / A	-
	44	-	N / A	-
	48	-	N / A	-
	52	-	N / A	-

NA (Not available)

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

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

MIL-DTL-26482 SERIES I & II



Straight Plug Shown

MANUFACTURER:
ARRAY
AERO ELECTRIC
AMPHENOL
DEUTSCH/TE
GLASSEAL
HERMETIC SEAL CORP.
ITT CANNON

SEALTRON
SOURIAU
SPI
CORSAIR

SERIES:
PW
AE77
118, DC, FPT(21-), PT, PT*CE, SP*CE, PT*SE, PTS*DR, SP, MB1
AFD, DBC, RBC, 226,450, 460, 810, 880
BE, GB
S*A-7000, 7000, HR
KPD, KPSE, KSSE, KP*, KS*, KPT, KSP, KPTM, KSPM PV, PVA,
PVJ, PVW, PVX
6300, 8100, 8300, 8312, 8315
851, 851*R, 8526, BT, L*T
MS31
CJO

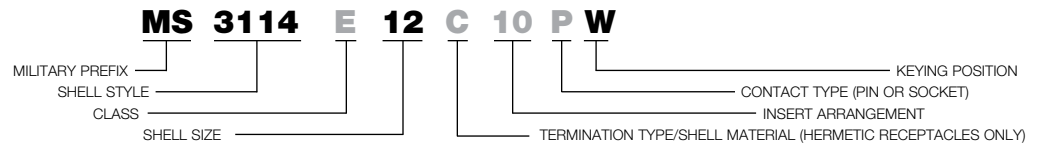
SPECIFICATIONS:

COUPLING METHOD: BAYONET
KEYING POSITIONS: BLANK (NORMAL),
W, X, Y, Z
ALTERNATE KEYING METHOD: ROTATION OF INSERT
KEYS REMAIN STATIONARY
EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING
FINGERS MAY NOT BE
AVAILABLE ON ALL MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Hard Anodize - Gray/Black Cadmium Olive Drab Cadmium Olive Drab Over Nickel
STEEL	Tin

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS3116 /Straight	8	ALL	CM264-8	ORANGE
MS3126 /Straight	10	ALL	CM264-10	ORANGE
MS3475 /Straight, RFI grounding	12	ALL	CM264-12	ORANGE
MS3476 /Straight	14	ALL	CM264-14	ORANGE
	16	ALL	CM264-16	ORANGE
	18	ALL	CM264-18	ORANGE
	20	ALL	CM264-20	ORANGE
	22	ALL	CM264-22	ORANGE
	24	ALL	CM264-24	ORANGE

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS3110 /Wall mount	8	ALL	CM264R-8	ORANGE
MS3111 /In-line	10	ALL	CM264R-10	ORANGE
MS3112 /Box mount	12	ALL	CM264R-12	ORANGE
MS3113 /Hermetic seal solder mount	14	ALL	CM264R-14	ORANGE
MS3114 /Jam nut	16	ALL	CM264R-16	ORANGE
MS3119 /Thru-bulkhead	18	ALL	CM264R-18	ORANGE
MS3120 /Wall mount	20	ALL	CM264R-20	ORANGE
MS3121 /In-line	22	ALL	CM264R-22	ORANGE
MS3122 /Box mount	24	ALL	CM264R-24	ORANGE
MS3124 /Jam nut				
MS3127 /Large flange box mount				
MS3128 /Large flange wall mount				
MS3440 /Hermetic seal box mount				
MS3442 /Wide flange hermetic seal box mount				
MS3443 /Hermetic seal solder mount				
MS3449 /Hermetic seal jam nut				
MS3470 /Wall mount				
MS3471 /In-line				
MS3472 /Wide flange wall mount				
MS3473 /Hermetic seal solder mount				
MS3474 /Jam nut				
MS3477 /Hermetic seal box mount				
MS3479 /Hermetic seal jam nut				

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

MIL-DTL-26500



Straight Plug Shown

MANUFACTURER:
AMPHENOL
BOEING (SPECIFICATION)
CONNECTOR INDUSTRIES
DETORONICS
Deutsch/TE
ELECTRONIC SEALS
GLASSEAL
HERMETIC SEAL CORP.
ITT CANNON
SEALTRON
SOURIAU
CINCH

SERIES:
48, 48-7005, 518, MB3, MT3, B, BFH, F, ZZ
BACC45F, BACC63
26500
DX
DB, DL, 94603
26500
50
26500
HTMF
6500, 6600, 8500, 8600
8530
C48, CN0915, CN0930, CN0942, CN0966, CN0967, MMB

SPECIFICATIONS:

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

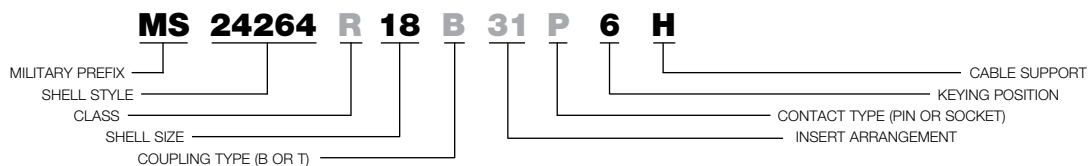
ALTERNATE KEYING METHOD: INSERT ROTATION IN POSITIONS 1 THRU 5, MINOR KEYS ROTATE IN POSITIONS 6 THRU 10

EMI/RFI GROUNDING: NO

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)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS24266 /Straight	8	N, 8, 9	CM837-8A*	GREEN
MS27615 /Straight	8	6, 7	CM837-8B*	GREEN
	8	6, 7	CM837-8D**	GREEN
	8	N, 8, 9	CM837-8C**	GREEN
	10	N, 8, 9	CM837-10A	GREEN
	10	6, 7, 10	CM837-10B	GREEN
	12	N, 6, 8	CM837-12A	GREEN
	12	7, 9, 10	CM837-12B	GREEN
	14	N, 6, 8	CM837-14A	GREEN
	14	7, 9, 10	CM837-14B	GREEN
	16	N, 6, 8	CM837-16A	GREEN
	16	7, 9, 10	CM837-16B	GREEN
	18	N, 6, 8	CM837-18A	GREEN
	18	7, 9, 10	CM837-18B	GREEN
	20	N, 6, 8	CM837-20A	GREEN
	20	7, 9, 10	CM837-20B	GREEN
	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

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS24264 /Wall mount	8	ALL	CM837RB-8	GREEN
MS24265 /Jam nut	10	ALL	CM837RB-10	GREEN
MS27034 /Hermetic solder mount	12	ALL	CM837RB-12	GREEN
MS27613 /Wall mount	14	ALL	CM837RB-14	GREEN
MS27614 /Jam nut	16	ALL	CM837RB-16	GREEN
	18	ALL	CM837RB-18	GREEN
	20	ALL	CM837RB-20	GREEN
	22	ALL	CM837RB-22	GREEN
	24	ALL	CM837RB-24	GREEN

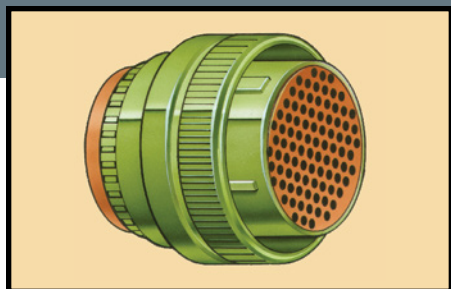
*For bayonet coupling connectors only. **For threaded coupling connectors only.

Bayonet couplings only. Adaptors not available for connectors with threaded coupling.

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

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

MIL-DTL-28840



Straight Plug Shown

GLENAIR

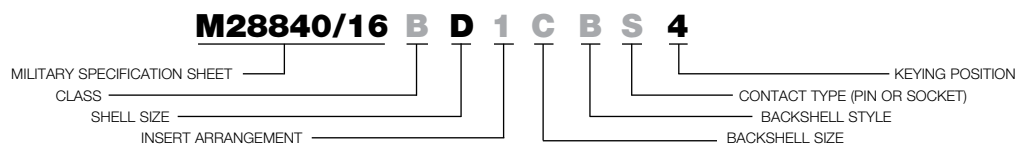
GT, GS, GS28840, 900

SPECIFICATIONS:

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



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

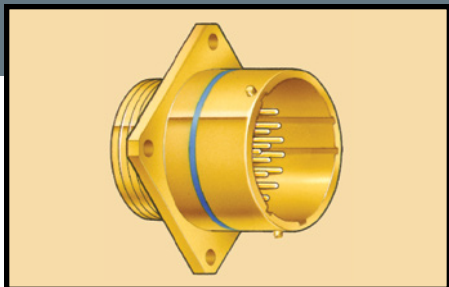
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M28840/16 /Straight	11(A)	1, 3, 5	CM288-11A	WHITE
M28840/17 /Straight, straight strain relief	11(A)	2, 4, 6	CM288-11B	WHITE
M28840/18 /Straight, 90° strain relief	13(B)	1, 3, 5	CM288-13A	WHITE
M28840/19 /Straight, 45° strain relief	13(B)	2, 4, 6	CM288-13B	WHITE
M28840/26 /Straight, straight backshell for jacketed cable	15(C)	2, 3, 4	CM288-15A	WHITE
M28840/28 /Straight, 90° backshell for jacketed cable	15(C)	1, 5, 6	CM288-15B	WHITE
M28840/29 /Straight, 45° backshell for jacketed cable	17(D)	2, 3, 4	CM288-17A	WHITE
	17(D)	1, 5, 6	CM288-17B	WHITE
	19(E)	2, 3, 4	CM288-19A	WHITE
	19(E)	1, 5, 6	CM288-19B	WHITE
	23(F)	2, 3, 4	CM288-23A	WHITE
	23(F)	1, 5, 6	CM288-23B	WHITE
	25(G)	2, 3, 4	CM288-25A	WHITE
	25(G)	1, 5, 6	CM288-25B	WHITE
	29(H)	2, 3, 4	CM288-29A	WHITE
	29(H)	1, 5, 6	CM288-29B	WHITE
	33(J)	2, 3, 4	CM288-33A	WHITE
	33(J)	1, 5, 6	CM288-33B	WHITE

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M28840/10 /Wall mount	11(A)	1	CM288R-11A	WHITE
M28840/11 /In-line	13(B)	1	CM288R-13A	WHITE
M28840/12 /Box mount	15(C)	1	CM288R-15A	WHITE
M28840/14 /Jam nut	17(D)	1	CM288R-17A	WHITE
M28840/20 /Wall mount, EMI	19(E)	1	CM288R-19A	WHITE
M28840/21 /In-line, straight backshell for jacketed cable	23(F)	1	CM288R-23A	WHITE
	25(G)	1	CM288R-25A	WHITE
	29(H)	1	CM288R-29A	WHITE
	33(J)	1	CM288R-33A	WHITE
	11(A)	2, 3, 4, 5, 6	CM288R-11B	WHITE
	13(B)	2, 3, 4, 5, 6	CM288R-13B	WHITE
	15(C)	2, 3, 4, 5, 6	CM288R-15B	WHITE
	17(D)	2, 3, 4, 5, 6	CM288R-17B	WHITE
	19(E)	2, 3, 4, 5, 6	CM288R-19B	WHITE
	23(F)	2, 3, 4, 5, 6	CM288R-23B	WHITE
	25(G)	2, 3, 4, 5, 6	CM288R-25B	WHITE
	29(H)	2, 3, 4, 5, 6	CM288R-29B	WHITE
	33(J)	2, 3, 4, 5, 6	CM288R-33B	WHITE

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

MIL-DTL-38999 SERIES I



Wall Mount Receptacle Shown

MANUFACTURER:
AMERICAN MICRO
AMPHENOL/SOCAPEX
AMPHENOL/PYLE NATIONAL
DEUTSCH/TE
ELECTRONIC SEALS
GLASSEAL
GLENAIR
ITT CANNON/VEAM
PLESSEY
SAE
SEALTRON
SOURIAU
SPACECRAFT COMPONENTS
CORSAIR HI REL
RMS

SERIES:
3
416, MB91, LJT, 5388, ILJT
G, P, T1
CTC, DJT
SERIES I
700
90000, 9220, 230, 231, 232, 91500, 92200
KJL, KJL, LTT
CT, LCT
HM (SERIES I)
9700
8LT
DCR, DCP
7600
R07

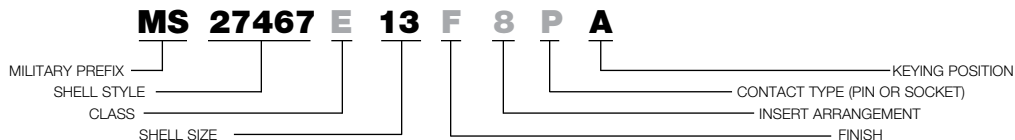
SPECIFICATIONS:

COUPLING METHOD: BAYONET
KEYING POSITIONS: BLANK (NORMAL),
A, B, C, D
ALTERNATE KEYING METHOD: 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



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS27467 /Straight, EMI grounding	9	ALL	CM389L-9	BLUE
MS27498 /90°	11	ALL	CM389L-11	BLUE
MS27653 /Straight, EMI grounding	13	ALL	CM389L-13	BLUE
MS27661 /Straight plug, lanyard release	15	ALL	CM389L-15	BLUE
	17	ALL	CM389L-17	BLUE
	19	ALL	CM389L-19	BLUE
	21	ALL	CM389L-21	BLUE
	23	ALL	CM389L-23	BLUE
	25	ALL	CM389L-25	BLUE

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS27466 /Wall mount	9	ALL	CM389LR-9	BLUE
MS27468 /Jam nut	11	ALL	CM389LR-11	BLUE
MS27469 /Hermetic wall mount	13	ALL	CM389LR-13	BLUE
MS27470 /Hermetic jam nut	15	ALL	CM389LR-15	BLUE
MS27471 /Hermetic solder mount	17	ALL	CM389LR-17	BLUE
MS27496 /Box mount	19	ALL	CM389LR-19	BLUE
MS27505 /Box mount, (rear panel mounting)	21	ALL	CM389LR-21	BLUE
MS27515 /Wall mount, (rear panel mounting)	23	ALL	CM389LR-23	BLUE
MS27652 /Wall mount	25	ALL	CM389LR-25	BLUE
MS27654 /Wall mount, (rear panel mounting)				
MS27656 /Wall mount, (rear panel mounting)				
MS27662 /Thru-bulkhead				

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-389L	9	8 THRU 25	CM-S-389LR	9	9 THRU 25

MIL-DTL-38999 SERIES II



Straight Plug Shown

MANUFACTURER:
AMERICAN MICRO
AERO ELECTRIC
AMPHENOL
CONNECTOR INDUSTRIES
CORSAIR
DETORONICS
ELECTRONIC SEALS
GLASSEAL
GLENAIR
HERMETIC SEAL CORP.
ITT CANNON
PLESSEY
SPI
SEALTRON
SOURIAU
HI REL

SERIES:
4
AE273
418, JT, MB91
G, H
CJ
DJT
SERIES II
800
231, 232, 233
900000
KJ, KJM
CT
MS
9800, A9B03
8LT, 8TO, 8T2
53000, 54010

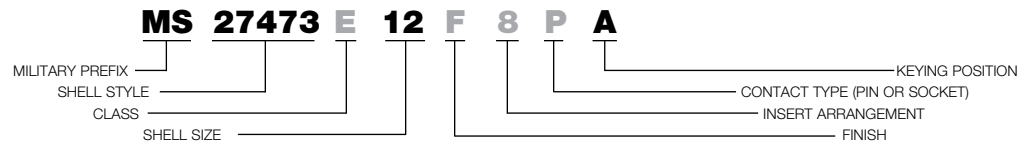
SPECIFICATIONS:

COUPLING METHOD: BAYONET
KEYING POSITIONS: BLANK (NORMAL),
A, B, C, D
ALTERNATE KEYING METHOD: MASTER KEY ROTATES –
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



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

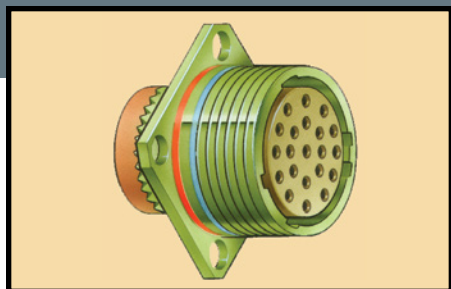
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS27473 /Straight	8	ALL	CM389S-8	GRAY
MS27480 /Straight	10	ALL	CM389S-10	GRAY
MS27484 /Straight, EMI grounding	12	ALL	CM389S-12	GRAY
MS27500 /90°	14	ALL	CM389S-14	GRAY
	16	ALL	CM389S-16	GRAY
	18	ALL	CM389S-18	GRAY
	20	ALL	CM389S-20	GRAY
	22	ALL	CM389S-22	GRAY
	24	ALL	CM389S-24	GRAY

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
MS27472 /Wall mount	8	ALL	CM264R-8	ORANGE
MS27474 /Jam nut	10	ALL	CM264R-10	ORANGE
MS27475 /Hermetic wall mount	12	ALL	CM264R-12	ORANGE
MS27476 /Hermetic box nut	14	ALL	CM264R-14	ORANGE
MS27477 /Hermetic jam mount	16	ALL	CM264R-16	ORANGE
MS27478 /Hermetic solder mount	18	ALL	CM264R-18	ORANGE
MS27479 /Wall mount	20	ALL	CM264R-20	ORANGE
MS27481 /Jam mount	22	ALL	CM264R-22	ORANGE
MS27482 /Hermetic wall mount	24	ALL	CM264R-24	ORANGE
MS27483 /Hermetic jam nut				
MS27497 /Wall mount, back panel mounting				
MS27499 /Box mount				
MS27503 /Hermetic solder mount				
MS27504 /Box mount				
MS27508 /Box mount, back panel mounting				
MS27513 /Box mount, long grommet				
MS27664 /Wall mount, back panel mounting				

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

MIL-DTL-38999 SERIES III



Wall Mount Receptacle Shown

CORSAIR	CJ
G&H TECH/COOPER	G300/G3GB, G3L6
AMPHENOL/PYLE NATIONAL	T3
AMPHENOL	TV, 5565, T3, MT93, TVP, CTVP, ITV, TVS
AMPHENOL/SOCAPEX	TVP, TVO7
AERO ELECTRIC	38999, AE320, AE322
DEUTSCH/TE	DTS, ACT
ELECTRONIC SEALS	SERIES III
ITT CANNON	KJA, KJB, VTTP
PLESSEY	TCT
AB CONNECTORSABAC	
HI REL	85010, 86000, 59000, 87000
SEALTRON	9900, 9903
HERMETIC SEAL	HR
CONESYS EUROPE	AE
AMERICAN MICRO	5, 2, 6
SPACECRAFT	SC999
SOURIAU	8D5, 200

COUPLING METHOD: THREADED, TRIPLE
START SELF-LOCKING

KEYING POSITIONS: N (NORMAL), A, B, C, D, E

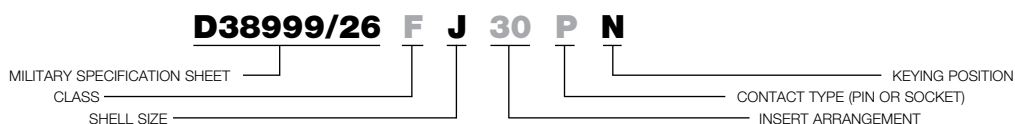
ALTERNATE KEYING METHOD: MASTER KEY REMAINS
STATIONARY –
MINOR KEYS ROTATE
INDEPENDENTLY

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

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Anodize Nickel Cadmium Olive Drab
STEEL	Passivated Nickel

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

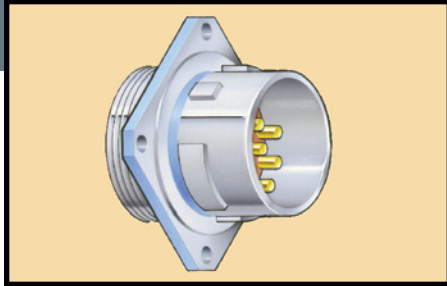


ADAPTOR TOOLS

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
D38999/26 /Straight	9(A)	N, C, D	CM389T-9A	LAVENDER	D38999/20 /Wall mount	9(A)	N	CM389TR-9A	LAVENDER
D38999/29 /Lanyard release	9(A)	A, B, E	CM389T-9B	LAVENDER	D38999/21 /Hermetic seal box mount	11(B)	N	CM389TR-11A	LAVENDER
D38999/30 /Lanyard release	11(B)	N, D, E	CM389T-11A	LAVENDER	D38999/23 /Hermetic seal jam nut	13(C)	N	CM389TR-13A	LAVENDER
D38999/31 /Lanyard release	11(B)	A, B, C	CM389T-11B	LAVENDER	D38999/24 /Jam nut	15(D)	N	CM389TR-15A	LAVENDER
D38999/36 /Lanyard release (25(J) Cell size only)	13(C)	N, D, E	CM389T-13A	LAVENDER	D38999/25 /Hermetic seal solder mount	17(E)	N	CM389TR-17A	LAVENDER
	13(C)	A, B, C	CM389T-13B	LAVENDER	D38999/27 /Hermetic seal weld mount	19(F)	N	CM389TR-19A	LAVENDER
	15(D)	N, D, E	CM389T-15A	LAVENDER	D38999/34 /Breakaway, jam nut (25 (J) shell size only)	21(G)	N	CM389TR-21A	LAVENDER
	15(D)	A, B, C	CM389T-15B	LAVENDER	D38999/35 /Breakaway, wall mount (25 (J) shell size only)	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		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 PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-389T	18	9 THRU 25	CM-S-389TR	18	9 THRU 25

MIL-DTL-38999 SERIES IV



Wall Mount Receptacle Shown

MANUFACTURER:
DEUTSCH/TE
ELECTRONIC SEALS
G & H TECH/COOPER
AMPHENOL
CINCH
GLENAIR

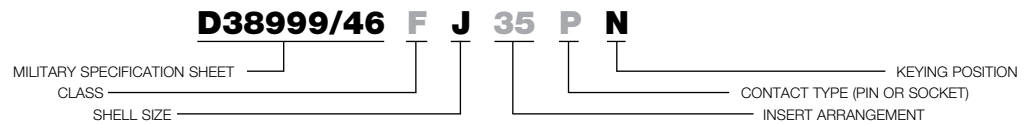
SERIES:
DIV
SERIES IV
BL
ML94
CN
230

SPECIFICATIONS:
COUPLING METHOD: BREECH-LOCK (SELF LOCKING)
KEYING POSITIONS: N (NORMAL), A, B, C, D
ALTERNATE KEYING METHOD: MASTER KEY REMAINS STATIONARY – INTERLOCKING SECTIONS ROTATE INDEPENDENTLY
EMI/RFI GROUNDING: YES (EMI/RFI GROUNDING FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Anodize Nickel Cadmium Olive Drab
STEEL	Passivated Nickel

**TYPICAL CONNECTOR
PART NUMBER
BREAKDOWN**

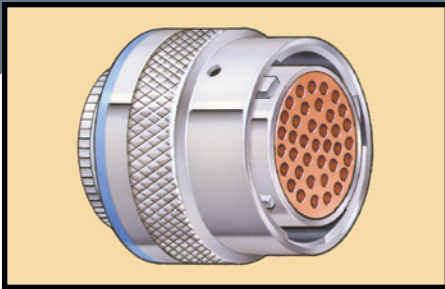


ADAPTOR TOOLS

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
D38999/47 /Straight	13(C)	ALL	CM389B-13	BEIGE	D38999/41 /Hermetic box mount	13(C)	ALL	CM389BR-13	BEIGE
	15(D)	ALL	CM389B-15	BEIGE	D38999/42 /Box mount	15(D)	ALL	CM389BR-15	BEIGE
	17(E)	ALL	CM389B-17	BEIGE	D38999/43 /Hermetic jam nut	17(E)	ALL	CM389BR-17	BEIGE
	19(F)	ALL	CM389B-19	BEIGE	D38999/44 /Jam nut	19(F)	ALL	CM389BR-19	BEIGE
	21(G)	ALL	CM389B-21	BEIGE	D38999/45 /Hermetic solder mount	21(G)	ALL	CM389BR-21	BEIGE
	23(H)	ALL	CM389B-23	BEIGE	D38999/48 /Hermetic weld mount	23(H)	ALL	CM389BR-23	BEIGE
	25(J)	ALL	CM389B-25	BEIGE	D38999/49 /In-line	25(J)	ALL	CM389BR-25	BEIGE

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-389B	7	11 THRU 25	CM-S-389BR	8	11 THRU 25

MIL-C-81511 SERIES I & III



Straight Plug Shown

MANUFACTURER:
AMPHENOL
DEUTSCH/TE
HERMETIC SEAL CORP.

SERIES:
348
815
10-00000

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 1

MILITARY SPECIFICATION SHEET CLASS SHELL SIZE KEYING POSITION CONTACT TYPE (PIN OR SOCKET) INSERT ARRANGEMENT

ADAPTOR TOOLS

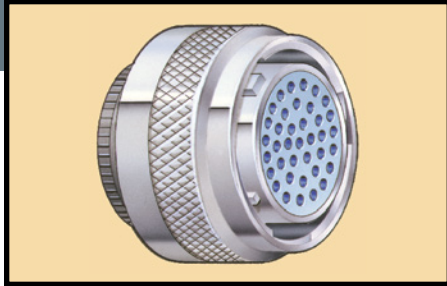
PLUG (REMOVABLE PORTION)

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
M81511/26/Straight	8(A)	1, 2, 3	CM815L-8A	YELLOW	M81511/21/Wall mount	8(A)	ALL	CM815R-8	YELLOW
M81511/46/Straight	8(A)	4, 5, 6	CM815L-8B	YELLOW	M81511/23/Jam nut	10(B)	ALL	CM815R-10	YELLOW
	10(B)	1, 2, 6	CM815L-10A	YELLOW	M81511/25/In-line	14(D)	ALL	CM815R-14	YELLOW
	10(B)	3, 4, 5	CM815L-10B	YELLOW	M81511/41/Wall mount	16(E)	ALL	CM815R-16	YELLOW
	14(D)	1, 2, 6	CM815L-14A	YELLOW	M81511/45/In-line	18(F)	ALL	CM815R-18	YELLOW
	14(D)	3, 4, 5	CM815L-14B	YELLOW	M81511/49/Jam nut	20(G)	ALL	CM815R-20	YELLOW
	16(E)	1, 2, 3	CM815L-16A	YELLOW		22(H)	ALL	CM815R-22	YELLOW
	16(E)	4, 5, 6	CM815L-16B	YELLOW		24(J)	ALL	CM815R-24	YELLOW
	18(F)	1, 2, 3	CM815L-18A	YELLOW					
	18(F)	4, 5, 6	CM815L-18B	YELLOW					
	20(G)	1, 2, 3	CM815L-20A	YELLOW					
	20(G)	4, 5, 6	CM815L-20B	YELLOW					
	22(H)	1, 2, 3	CM815L-22A	YELLOW					
	22(H)	4, 5, 6	CM815L-22B	YELLOW					
	24(J)	1, 2, 3	CM815L-24A	YELLOW					
	24(J)	4, 5, 6	CM815L-24B	YELLOW					

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

MIL-C-81511 SERIES II & IV



Straight Plug Shown

MANUFACTURER:
AMPHENOL
DEUTSCH/TE

SERIES:
348
815

SPECIFICATIONS:

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



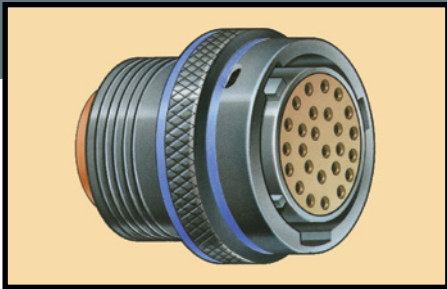
ADAPTOR TOOLS

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
M81511/06 /Straight	8(A)	ALL	CM815S-8	RED	M81511/01 /Wall mount	8(A)	ALL	CM815R-8	YELLOW
M81511/56 /Straight	10(B)	1, 4, 5	CM815S-10A	RED	M81511/03 /Jam nut	10(B)	ALL	CM815R-10	YELLOW
	10(B)	2, 3, 6	CM815S-10B	RED	M81511/05 /In-line	14(D)	ALL	CM815R-14	YELLOW
	14(D)	1, 4, 5	CM815S-14A	RED	M81511/51 /Wall mount	16(E)	ALL	CM815R-16	YELLOW
	14(D)	2, 3, 6	CM815S-14B	RED	M81511/53 /Jam nut	18(F)	ALL	CM815R-18	YELLOW
	16(E)	1, 2, 4	CM815S-16A	RED	M81511/53 /Jam nut	20(G)	ALL	CM815R-20	YELLOW
	16(E)	3, 5, 6	CM815S-16B	RED		22(H)	ALL	CM815R-22	YELLOW
	18(F)	1, 2, 4	CM815S-18A	RED		24(J)	ALL	CM815R-24	YELLOW
	18(F)	3, 5, 6	CM815S-18B	RED					

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-815S	9	8 THRU 24	CM-S-815R	8	8 THRU 24

MIL-DTL-83723 SERIES I

(REPLACED BY MIL-DTL-26482, SERIES 2)



Straight Plug Shown

MANUFACTURER:
AERO ELECTRIC
AMPHENOL
BURNDY
CONNECTOR INDUSTRIES
DETORONICS
DEUTSCH/TE/TE
ELECTRONIC SEALS
GENERAL CONNECTOR
GLASSEAL
HERMETIC SEAL CORP.
ITT CANNON

SEALTRON
S.E.C.
SOURIAU
VEAM/LITTON

SERIES:
AE77/AE8337
118, DC, FPT(21-), PT, PT*CE, SP*CE, PT*SE, PTS*DR, SP, MB1
BT, L*T
C, K
DT
AFD, DBC, RBC, 450, 460, 810, 880
9-
GC, GC*C
BE, GB
S*A-7000, 7000
KPD, KPSE, KSSE, KP*, KS*, KPT, KSP, KPTM, KSPM, PV, PVA,
PVJ, PVW, PVX
6300, 8100, 8300
PW
851, 851*R, 8526
VPT, VPT*SE, VUT

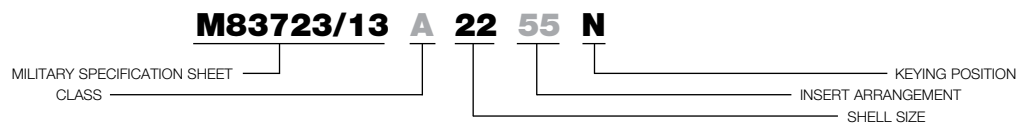
SPECIFICATIONS:

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



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

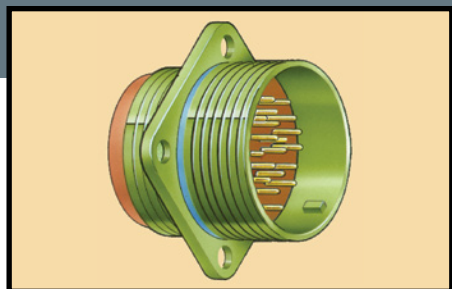
RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M83723/13 /Straight	8	ALL	CM264-8	ORANGE	M83723/01 /Narrow flange wall mount	8	ALL	CM264R-8	ORANGE
M83723/14 /Straight	10	ALL	CM264-10	ORANGE	M83723/02 /Narrow flange wall mount	10	ALL	CM264R-10	ORANGE
M82723/36 /Prewired size 8 straight	12	ALL	CM264-12	ORANGE	M83723/03 /Wide flange wall mount	12	ALL	CM264R-12	ORANGE
M83723/37 /Prewired size 8 straight	16	ALL	CM264-16	ORANGE	M83723/04 /Wide flange wall mount	14	ALL	CM264R-14	ORANGE
M83723/42 /Straight, RFI grounding	14	ALL	CM264-14	ORANGE	M83723/05 /Jam nut	16	ALL	CM264R-16	ORANGE
M83723/43 /Straight, RFI grounding	18	ALL	CM264-18	ORANGE	M83723/06 /Jam nut	18	ALL	CM264R-18	ORANGE
M83723/43 /Straight, RFI grounding	20	ALL	CM264-20	ORANGE	M83723/07 /In-line	20	ALL	CM264R-20	ORANGE
M83723/48 /Prewired size 8 straight, RFI grounding	22	ALL	CM264-22	ORANGE	M83723/08 /In-line	22	ALL	CM264R-22	ORANGE
M83723/49 /Prewired size 8 straight, RFI grounding					M83723/09 /Hermetic narrow flange box mount	24	ALL	CM264R-24	ORANGE
					M83723/10 /Hermetic wide flange box mount				
					M83723/11 /Hermetic solder mount				
					M83723/12 /Hermetic jam nut				
					M83723/38 /Prewired size 8 narrow flange wall 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 PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-264	9	8 THRU 24	CM-S-264R	9	8 THRU 24

MIL-DTL-83723 SERIES II

(INTERMATEABLE WITH AS50151)



Wall Mount Receptacle Shown

MANUFACTURER:
AERO ELECTRIC
AMPHENOL

ITT CANNON

SERIES:

AE55, AE723
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, MFR, M723, 944, 981
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

SPECIFICATIONS:

COUPLING METHOD: THREADED
KEYING POSITIONS: N (NORMAL), W, X, Y, Z
ALTERNATE KEYING METHOD: KEYS REMAIN STATIONARY
EMI/RFI GROUNDING: NO

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Anodize Nickel
STEEL	Tin
STAINLESS STEEL	Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

M83723/23 G 22 55 N

MILITARY SPECIFICATION SHEET
CLASS

KEYING POSITION
INSERT ARRANGEMENT
SHELL SIZE

ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M83723/23 /Straight	8	ALL	CM5015-8	CHROME
M83723/24 /Straight	10	ALL	CM5015-10	CHROME
M83723/52 /Straight, self-locking coupling nut	12	ALL	CM5015-12	CHROME
M83723/53 /Straight, self-locking coupling nut	14	ALL	CM5015-14	CHROME
	16	ALL	CM5015-16	CHROME
	18	ALL	CM5015-18	CHROME
	20	ALL	CM5015-20	CHROME
	22	ALL	CM5015-22	CHROME
	24	ALL	CM5015-24	CHROME
	28	ALL	CM5015-28	CHROME
	32	ALL	CM5015-32	CHROME
	36	ALL	CM5015-36	CHROME
	40	ALL	CM5015-40	CHROME
	44	ALL	CM5015-44	CHROME
	48	ALL	CM5015-48	CHROME

RECEPTACLE (STATIONARY PORTION)

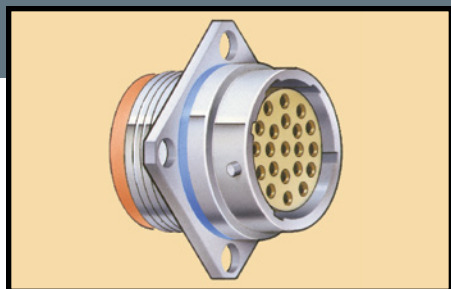
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
M83723/17 /In-line	8	ALL	CM5015R-8	CHROME
M83723/18 /In-line	10	ALL	CM5015R-10	CHROME
M83723/19 /Wall mount	12	ALL	CM5015R-12	CHROME
M83723/20 /Wall mount	14	ALL	CM5015R-14	CHROME
M83723/21 /Box mount	16	ALL	CM5015R-16	CHROME
M83723/22 /Box mount	18	ALL	CM5015R-18	CHROME
M83723/25 /Box mount hermetic	20	ALL	CM5015R-20	CHROME
M83723/26 /Solder mount hermetic	22	ALL	CM5015R-22	CHROME
	24	ALL	CM5015R-24	CHROME
	28	ALL	CM5015R-28	CHROME
	32	ALL	CM5015R-32	CHROME
	36	ALL	CM5015R-36	CHROME
	40	ALL	CM5015R-40	CHROME
	44	ALL	CM5015R-44	CHROME
	48	ALL	CM5015R-48	CHROME

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-5015	15	8 THRU 24

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-5015R	15	8 THRU 24

MIL-DTL-83723 SERIES III

(REF: MIL-C-26500)



Wall Mount Receptacle Shown

MANUFACTURER:
 AMPHENOL
 BOEING (SPECIFICATION)
 DEUTSCH/TE
 HERMETIC SEAL CORP.
 ITT CANNON
 SEALTRON
 GLENAIR
 J-TECH
 AERO ELECTRIC
 AMPHENOL/MATRIX
 RMS
 AMPHENOL/PYLE NATIONAL
 AMERICAN MICRO
 HI REL

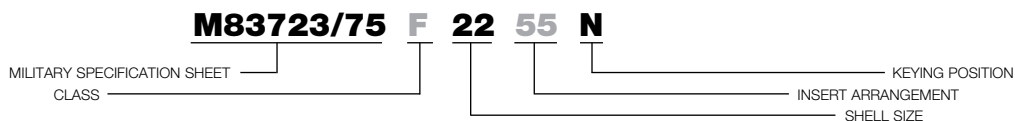
SERIES:
 48, 518, MB3, MT3, B, BFH
 BACC45F
 DB, DL, 94603
 83723
 HTMF
 6500, 6600
 G534
 JT837
 AE83
 MB, MQ
 RO73
 BY, BJK, BT, BEN
 30J, 20, 40, 50K
 690000, 70000, 71000

COUPLING METHOD: BAYONET OR THREADED
KEYING POSITIONS: N (NORMAL), 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ALTERNATE KEYING METHOD: INSERT ROTATION IN POSITIONS 1 THRU 5, MINOR KEY ROTATION IN POSITIONS 6 THRU 10
EMI/RFI GROUNDING: YES (EMI/RFI FINGERS MAY NOT BE AVAILABLE ON ALL MODELS)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	BLACK ANODIZE CADMIUM
STAINLESS STEEL	PASSIVATED NICKEL
STEEL	TIN

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS

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
M83723/66 /Straight, push-pull quick disconnect	8	N, 8, 9	CM837-8A*	GREEN	M83723/65 /Jam nut, hermetic seal	8	ALL	CM837RB-8	GREEN
M83723/67 /Straight, push-pull quick disconnect	8	6, 7	CM837-8B*	GREEN	M83723/71 /Wall mount	10	ALL	CM837RB-10	GREEN
M83723/68 /Straight, push-pull quick disconnect, lanyard	8	N, 8, 9	CM837-8C**	GREEN	M83723/72 /Wall mount	12	ALL	CM837RB-12	GREEN
M83723/69 /Straight, push-pull quick disconnect, lanyard	8	6, 7	CM837-8D**	GREEN	M83723/73 /Jam nut	14	ALL	CM837RB-14	GREEN
M83723/75 /Straight	10	N, 8, 9	CM837-10A	GREEN	M83723/74 /Jam nut	16	ALL	CM837RB-16	GREEN
M83723/76 /Straight	10	6, 7, 10	CM837-10B	GREEN	M83723/79 /Box mount, hermetic seal	18	ALL	CM837RB-18	GREEN
M83723/77 /Straight, EMI grounding	12	7, 9, 10	CM837-12B	GREEN	M83723/80 /Solder mount, hermetic seal	20	ALL	CM837RB-20	GREEN
M83723/78 /Straight, EMI grounding	12	N, 6, 8	CM837-12A	GREEN	M83723/81 /Jam nut, hermetic seal	22	ALL	CM837RB-22	GREEN
M83723/87 /Straight	14	N, 6, 8	CM837-14A	GREEN	M83723/93 /Solder mount, hermetic seal	24	ALL	CM837RB-24	GREEN
M83723/91 /Straight, EMI grounding	14	7, 9, 10	CM837-14B	GREEN	M83723/94 /Jam nut, hermetic seal				
M83723/92 /Straight, EMI grounding	16	N, 6, 8	CM837-16A	GREEN					
M83723/96 /Straight, self-locking coupling nut	16	7, 9, 10	CM837-16B	GREEN					
M83723/97 /Straight, self-locking coupling nut, EMI grounding	18	N, 6, 8	CM837-18A	GREEN					
M83723/98 /Straight, self-locking coupling nut, EMI grounding	18	7, 9, 10	CM837-18B	GREEN					
	20	N, 6, 8	CM837-20A	GREEN					
	20	7, 9, 10	CM837-20B	GREEN					
	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					

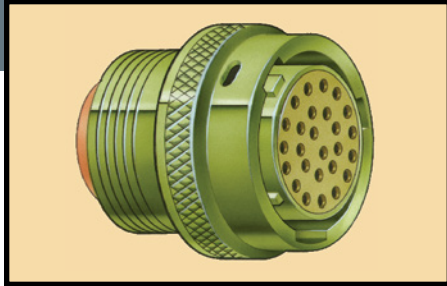
*For bayonet coupling only. **For threaded coupling connectors only.

Bayonet couplings only. Adaptors not available for connectors with threaded coupling.

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

PATTERN 602

PAN 6432-4, EL2112



Straight Plug Shown

MANUFACTURER:
AMPHENOL
CANNON ELECTRIC GB
HELLERMANN DEUTSCH/TE
SOURIAU

SERIES:
602GB
PVX
RR
8526

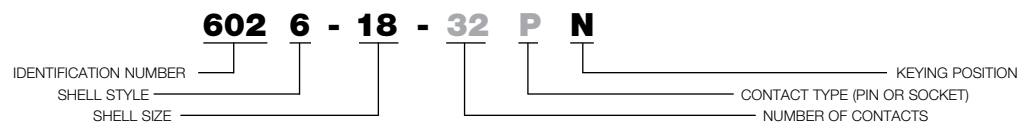
SPECIFICATIONS:

COUPLING METHOD: BAYONET
KEYING POSITIONS: N (NORMAL), B, C, E, F FOR SHELL;
N (NORMAL), W, X, Y, Z FOR INSERT
ALTERNATE KEYING METHOD: MASTER KEY REMAINS 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)

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Cadmium Olive Drab

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
6026/Plug	8	N	CM602-8A	PURPLE
	8	E, F	CM602-8B	PURPLE
	10	N, B, C	CM602-10A	PURPLE
	10	E, F	CM602-10B	PURPLE
	12	N, B, C	CM602-12A	PURPLE
	12	E, F	CM602-12B	PURPLE
	14	N, B, C	CM602-14A	PURPLE
	14	E, F	CM602-14B	PURPLE
	16	N, B, C	CM602-16A	PURPLE
	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

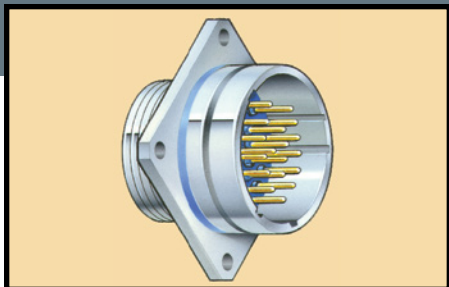
RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	COLOR
6020/Square flange	8	ALL	CM264R-8	ORANGE
6027/Jam nut	10	ALL	CM264R-10	ORANGE
6021H/Solder fixing hermetic	12	ALL	CM264R-12	ORANGE
6027H/Jam nut hermetic	14	ALL	CM264R-14	ORANGE
	16	ALL	CM264R-16	ORANGE
	18	ALL	CM264R-18	ORANGE
	20	ALL	CM264R-20	ORANGE
	22	ALL	CM264R-22	ORANGE
	24	ALL	CM264R-24	ORANGE

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

PATTERN 615

PAN 6433-2



Wall Mount Receptacle Shown

MANUFACTURER:
AMPHENOL
PLESSEY

SERIES:
SJT
MK26

SPECIFICATIONS:

COUPLING METHOD: BAYONET
KEYING POSITIONS: BLANK (NORMAL),
A, B, C, D
ALTERNATE KEYING METHOD: MASTER KEY ROTATES –
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**

SJT 00 RT - 18 - 66 P A 005

I.D. NO. ————
SHELL STYLE ————
SERVICE CLASS ————
SHELL SIZE ————

KEYING POSITION ————
CONTACT TYPE (PIN OR SOCKET) ————
INSERT ARRANGEMENT ————
FINISH ————

ADAPTOR TOOLS

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
SJT06RT /Straight, RFI grounding fingers	10	ALL	CMSJT-10	GOLD	SJTP02RE /Box mount	10	ALL	CM264R-10	ORANGE
	12	ALL	CMSJT-12	GOLD	SJTP00RT /Wall mount	12	ALL	CM264R-12	ORANGE
	14	ALL	CMSJT-14	GOLD	SJT07RT /Jam nut	14	ALL	CM264R-14	ORANGE
	16	ALL	CMSJT-16	GOLD	SJTIY /Solder mount hermetic	16	ALL	CM264R-16	ORANGE
	18	ALL	CMSJT-18	GOLD	SJT07Y /Jam nut hermetic	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 PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-SJT	9	8 THRU 24	CM-S-264R	9	8 THRU 24

MICRO CONNECTORS

2M801/801



Wall Mount Receptacle Shown

MANUFACTURER:
AMPHENOL
GLENAIR

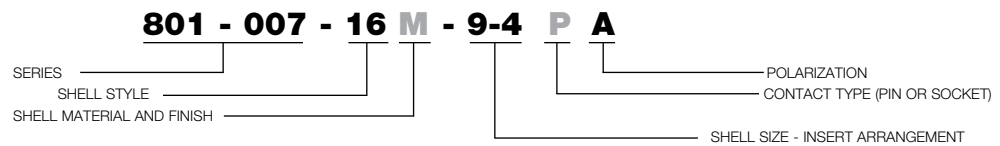
SERIES:
2M
Mighty Mouse

SPECIFICATIONS:
COUPLING METHOD: DUAL-START ACME
THREAD
KEYING POSITIONS: A, B, C, D, E, F
**ALTERNATE KEYING
METHOD:**
EMI/RFI GROUNDING:

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Black Anodize Electroless Nickel Cadmium w/ Olive Drab Chromate Zinc-Nickel w/ Black Chromate Nickel-PTFE
STAINLESS STEEL	Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)				RECEPTACLE (STATIONARY PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M801-007/ Plug with Integral Backshell	5	A, B, E	CM801-05A*	2M801-009/ Receptacle with Integral Backshell	5	A, B, F	CM801R-05A
2M801-008/ Plug with Accessory Threads	5	C, D	CM801-05B*	2M801-010/ Receptacle with Accessory Threads	5	D, E	CM801R-05B
	5	A	CM801-05AA*		5	A	CM801R-05AA
801-007/ Plug With Banding Platform	5	B	CM801-05BB*	801-009/ Receptacle With Banding Platform	5	B	CM801R-05BB
801-008/ Plug With Rear Accessory Thread	5	C	CM801-05CC*		5	C	CM801R-05CC
	5	D	CM801-05DD*	801-010/ Receptacle With Accessory Thread	5	D	CM801R-05DD
	5	E	CM801-05EE*		5	E	CM801R-05EE
	5	F	CM801-05FF*		5	F	CM801R-05FF
	6	A, B, E	CM801-06A*		6	A, B, F	CM801R-06A
	6	C, D	CM801-06B*		6	D, E	CM801R-06B
	6	A	CM801-06AA*		6	A	CM801R-06AA
	6	B	CM801-06BB*		6	B	CM801R-06BB
	6	C	CM801-06CC*		6	C	CM801R-06CC
	6	D	CM801-06DD*		6	D	CM801R-06DD
	6	E	CM801-06EE*		6	E	CM801R-06EE
	6	F	CM801-06FF*		6	F	CM801R-06FF
	7	A, B, E	CM801-07A*		7	A, B, F	CM801R-07A
	7	C, D	CM801-07B*		7	D, E	CM801R-07B
	7	A	CM801-07AA*		7	A	CM801R-07AA
	7	B	CM801-07BB*		7	B	CM801R-07BB
	7	C	CM801-07CC*		7	C	CM801R-07CC
	7	D	CM801-07DD*		7	D	CM801R-07DD
	7	E	CM801-07EE		7	E	CM801R-07EE
	7	F	CM801-07FF*		7	F	CM801R-07FF

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-801	18	5-21	CM-S-801R	30	5-21

MICRO CONNECTORS

2M801/801 (CONTINUED)

ADAPTOR TOOLS			
PLUG (REMOVABLE PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M801-007/ Plug with Integral Backshell	8	A, B, E	CM801-08A*
	8	C, D	CM801-08B*
2M801-008/ Plug with Accessory Threads	8	A	CM801-08AA*
	8	B	CM801-08BB*
801-007/ Plug With Banding Platform	8	C	CM801-08CC*
	8	D	CM801-08DD*
801-008/ Plug With Rear Accessory Thread	8	E	CM801-08EE*
	8	F	CM801-08FF*
	9	A-F	CM801-09A
	9	A	CM801-09AA
	9	B	CM801-09BB
	9	C	CM801-09CC
	9	D	CM801-09DD
	9	E	CM801-09EE
	9	F	CM801-09FF
	10	A-F	CM801-10A
	10	A	CM801-10AA
	10	B	CM801-10BB
	10	C	CM801-10CC
	10	D	CM801-10DD
	10	E	CM801-10EE
	10	F	CM801-10FF
	13	A-F	CM801-13A*
	13	A	CM801-13AA*
	13	B	CM801-13BB*
	13	C	CM801-13CC*
	13	D	CM801-13DD*
	13	E	CM801-13EE*
	13	F	CM801-13FF*
	16	A-F	CM801-16A
	16	A	CM801-16AA
	16	B	CM801-16BB
	16	C	CM801-16CC
	16	D	CM801-16DD
	16	E	CM801-16EE
	16	F	CM801-16FF
	17	A-F	CM801-17A
	17	A	CM801-17AA
	17	B	CM801-17BB
	17	C	CM801-17CC
	17	D	CM801-17DD
	17	E	CM801-17EE
	17	F	CM801-17FF

RECEPTACLE (STATIONARY PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M801-009/ Receptacle with Integral Backshell	8	A, B, F	CM801R-08A
	8	D, E	CM801R-08B
2M801-010/ Receptacle with Accessory Threads	8	A	CM801R-08AA
	8	B	CM801R-08BB
801-009/ Receptacle With Banding Platform	8	C	CM801R-08CC
	8	D	CM801R-08DD
801-010/ Receptacle With Accessory Thread	8	E	CM801R-08EE
	8	F	CM801R-08FF
	9	A, B, F	CM801R-09A
	9	D, E	CM801R-09B
	9	A	CM801R-09AA
	9	B	CM801R-09BB
	9	C	CM801R-09CC
	9	D	CM801R-09DD
	9	E	CM801R-09EE
	9	F	CM801R-09FF
	10	A, B, F	CM801R-10A
	10	D, E	CM801R-10B
	10	A	CM801R-10AA
	10	B	CM801R-10BB
	10	C	CM801R-10CC
	10	D	CM801R-10DD
	10	E	CM801R-10EE
	10	F	CM801R-10FF
	13	A, B, F	CM801R-13A
	13	D, E	CM801R-13B
	13	A	CM801R-13AA
	13	B	CM801R-13BB
	13	C	CM801R-13CC
	13	D	CM801R-13DD
	13	E	CM801R-13EE
	13	F	CM801R-13FF
	16	A, B, F	CM801R-16A
	16	D, E	CM801R-16B
	16	A	CM801R-16AA
	16	B	CM801R-16BB
	16	C	CM801R-16CC
	16	D	CM801R-16DD
	16	E	CM801R-16EE
	16	F	CM801R-16FF
	17	A, B, F	CM801R-17A
	17	D, E	CM801R-17B
	17	A	CM801R-17AA
	17	B	CM801R-17BB
	17	C	CM801R-17CC
	17	D	CM801R-17DD
	17	E	CM801R-17EE
	17	F	CM801R-17FF

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-801	18	5-21

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-801R	30	5-21

MICRO CONNECTORS

2M801/801 (CONTINUED)

ADAPTOR TOOLS							
PLUG (REMOVABLE PORTION)				RECEPTACLE (STATIONARY PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M801-007 / Plug with Integral Backshell	21	A-F	CM801-21A	2M801-009 / Receptacle with Integral Backshell	21	A, B, F	CM801R-21A
2M801-008 / Plug with Accessory Threads	21	A	CM801-21AA	2M801-010 / Receptacle with Accessory Threads	21	D, E	CM801R-21B
	21	B	CM801-21BB		21	A	CM801R-21AA
801-007 / Plug With Banding Platform	21	C	CM801-21CC	801-009 / Receptacle With Banding Platform	21	B	CM801R-21BB
801-008 / Plug With Rear Accessory Thread	21	D	CM801-21DD	801-010 / Receptacle With Accessory Thread	21	C	CM801R-21CC
	21	E	CM801-21EE		21	D	CM801R-21DD
	21	F	CM801-21FF		21	E	CM801R-21EE
	11	A	CM801-11A		21	F	CM801R-21FF
	11	B	CM801-11B		11	A	CM801R-11A
	11	C	CM801-11C		11	B	CM801R-11B
	11	D	CM801-11D		11	C	CM801R-11C
	19	A	CM801-19A		11	D	CM801R-11D
	19	B	CM801-19B		19	A	CM801R-19A
	19	C	CM801-19C		19	B	CM801R-19B
	19	D	CM801-19D		19	C	CM801R-19C
					19	D	CM801R-19D

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-801	18	5-21	CM-S-801R	30	5-21

MICRO CONNECTORS

2M803/803



Wall Mount Receptacle Shown

MANUFACTURER:
AMPHENOL
GLENAIR

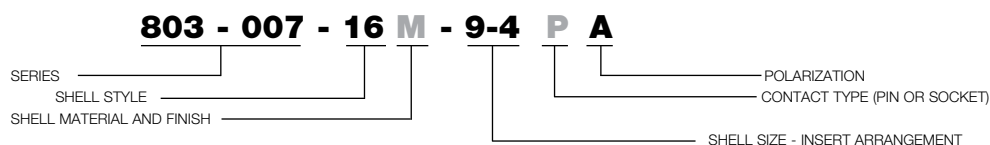
SERIES:
2M
Mighty Mouse

SPECIFICATIONS:
COUPLING METHOD: BAYONET
KEYING POSITIONS: A, B, C, D, E, F
ALTERNATE KEYING METHOD:
EMI/RFI GROUNDING:

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Black Anodize Electroless Nickel Cadmium w/ Olive Drab Chromate Zinc-Nickel w/ Black Chromate Nickel-PTFE
STAINLESS STEEL	Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
803-001/ Plug with Integral Backshell	5	N, X	CM803-05A	803-003/ Receptacle with Banding Platform	5	N, X	CM803R-05A
803-002/ Plug with Accessory Threads	5	Y, Z	CM803-05B	803-004/ Receptacle with Accessory Threads	5	N	CM803R-05NN
	5	N	CM803-05NN		5	X	CM803R-05XX
	5	X	CM803-05XX		5	Y	CM803R-05YY
	5	Y	CM803-05YY		5	Z	CM803R-05ZZ
	5	Z	CM803-05ZZ		6	N, X	CM803R-06A
	6	N, X	CM803-06A		6	N	CM803R-06NN
	6	Y, Z	CM803-06B		6	X	CM803R-06XX
	6	N	CM803-06NN		6	Y	CM803R-06YY
	6	X	CM803-06XX		6	Z	CM803R-06ZZ
	6	Y	CM803-06YY		7	N, X	CM803R-07A
	6	Z	CM803-06ZZ		7	N	CM803R-07NN
	7	N, X	CM803-07A		7	X	CM803R-07XX
	7	Y, Z	CM803-07B		7	Y	CM803R-07YY
	7	N	CM803-07NN		7	Z	CM803R-07ZZ
	7	X	CM803-07XX		8	N, X	CM803R-08A
	7	Y	CM803-07YY		8	N	CM803R-08NN
	7	Z	CM803-07ZZ		8	X	CM803R-08XX
	8	N, X	CM803-08A		8	Y	CM803R-08YY
	8	Y, Z	CM803-08B		9	N, X	CM803R-09A
	8	N	CM803-08NN		9	N	CM803R-09NN
	8	X	CM803-08XX		9	X	CM803R-09XX
	8	Y	CM803-08YY		9	Y	CM803R-09YY
	8	Z	CM803-08ZZ		9	Z	CM803R-09ZZ

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-803	18	5-15	CM-S-803R	27	5-15

MICRO CONNECTORS

2M803/803 (CONTINUED)

ADAPTOR TOOLS							
PLUG (REMOVABLE PORTION)				RECEPTACLE (STATIONARY PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
803-001/ Plug with Integral Backshell 803-002/ Plug with Accessory Threads	9	N, X	CM803-09A	803-003/ Receptacle with Banding Platform	10	N, X	CM803R-10A
	9	Y, Z	CM803-09B	803-004/ Receptacle with Accessory Threads	10	N	CM803R-10NN
	9	N	CM803-09NN		10	X	CM803R-10XX
	9	X	CM803-09XX		10	Y	CM803R-10YY
	9	Y	CM803-09YY		10	Z	CM803R-10ZZ
	9	Z	CM803-09ZZ		12	N, X	CM803R-12A
	10	N, X	CM803-10A		12	N	CM803R-12NN
	10	Y, Z	CM803-10B		12	X	CM803R-12XX
	10	N	CM803-10NN		12	Y	CM803R-12YY
	10	X	CM803-10XX		12	Z	CM803R-12ZZ
	10	Y	CM803-10YY		14	N, X	CM803R-14A
	10	Z	CM803-10ZZ		14	N	CM803R-14NN
	12	N, X	CM803-12A		14	X	CM803R-14XX
	12	Y, Z	CM803-12B		14	Y	CM803R-14YY
	12	N	CM803-12NN		14	Z	CM803R-14ZZ
	12	X	CM803-12XX		15	N, X	CM803R-15A
	12	Y	CM803-12YY		15	N	CM803R-15NN
	12	Z	CM803-12ZZ		15	X	CM803R-15XX
	14	N, X	CM803-14A		15	Y	CM803R-15YY
	14	Y, Z	CM803-14B		15	Z	CM803R-15ZZ
	14	N	CM803-14NN				
	14	X	CM803-14XX				
	14	Y	CM803-14YY				
	14	Z	CM803-14ZZ				
	15	N, X	CM803-15A				
	15	Y, Z	CM803-15B				
	15	N	CM803-15NN				
	15	X	CM803-15XX				
	15	Y	CM803-15YY				
	15	Z	CM803-15ZZ				

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-803	18	5-15	CM-S-803R	27	5-15

MICRO CONNECTORS

2M804/804



MANUFACTURER:
AMPHENOL
GLENAIR

SERIES:
2M
Mighty Mouse

SPECIFICATIONS:
COUPLING METHOD: PUSH-PULL
KEYING POSITIONS: A, B, C, D, E, F
ALTERNATE KEYING METHOD:
EMI/RFI GROUNDING:

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Black Anodize Electroless Nickel Cadmium w/ Olive Drab Chromate Zinc-Nickel w/ Black Chromate Nickel-PTFE
STAINLESS STEEL	Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN

804 - 007 - 16 M - 9-4 P A

SERIES _____
SHELL STYLE _____
SHELL MATERIAL AND FINISH _____

POLARIZATION _____
CONTACT TYPE (PIN OR SOCKET) _____

SHELL SIZE - INSERT ARRANGEMENT _____

ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)				RECEPTACLE (STATIONARY PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
804-001 /Plug with Banding Platform	5	A, B, E, U	CM804-05A	804-003 Receptacle with Banding Platform	5	A, B, F	CM804R-05A
805-002 /Plug with Accessory Threads	5	C, D, U	CM804-05B	804-004 /Receptacle with Accessory Threads	5	D, E	CM804R-05B
	5	A, U	CM804-05AA		5	A	CM804R-05AA
	5	B, U	CM804-05BB		5	B	CM804R-05BB
	5	C, U	CM804-05CC		5	C	CM804R-05CC
	5	D, U	CM804-05DD		5	D	CM804R-05DD
	5	E, U	CM804-05EE		5	E	CM804R-05EE
	5	F, U	CM804-05FF		5	F	CM804R-05FF
	5	U - SINGLE MASTER	CM804-05		5	U	CM804R-05UU
	6	A, B, E, U	CM804-06A		6	A, B, F	CM804R-06A
	6	C, D, U	CM804-06B		6	D, E	CM804R-06B
	6	A, U	CM804-06AA		6	A	CM804R-06AA
	6	B, U	CM804-06BB		6	B	CM804R-06BB
	6	C, U	CM804-06CC		6	C	CM804R-06CC
	6	D, U	CM804-06DD		6	D	CM804R-06DD
	6	E, U	CM804-06EE		6	E	CM804R-06EE
	6	F, U	CM804-06FF		6	F	CM804R-06FF
	6	U - SINGLE MASTER	CM804-06		6	U	CM804R-06UU
	7	A, B, E, U	CM804-07A		7	A, B, F	CM804R-07A
	7	C, D, U	CM804-07B		7	D, E	CM804R-07B
	7	A, U	CM804-07AA		7	A	CM804R-07AA
	7	B, U	CM804-07BB		7	B	CM804R-07BB
	7	C, U	CM804-07CC		7	C	CM804R-07CC
	7	D, U	CM804-07DD		7	D	CM804R-07DD
	7	E, U	CM804-07EE		7	E	CM804R-07EE
	7	F, U	CM804-07FF		7	F	CM804R-07FF
	7	U - SINGLE MASTER	CM804-07		7	U	CM804R-07UU

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-804	13	5-15	CM-S-804R	18	5-15

MICRO CONNECTORS

2M804/804 (CONTINUED)

ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
804-001/ Plug with Banding Platform 805-002/ Plug with Accessory Threads	8	A, B, E, U	CM804-08A	804-003 Receptacle with Banding Platform 804-004/ Receptacle with Accessory Threads	8	A, B, F	CM804R-08A
	8	C, D, U	CM804-08B		8	D, E	CM804R-08B
	8	A, U	CM804-08AA		8	A	CM804R-08AA
	8	B, U	CM804-08BB		8	B	CM804R-08BB
	8	C, U	CM804-08CC		8	C	CM804R-08CC
	8	D, U	CM804-08DD		8	D	CM804R-08DD
	8	E, U	CM804-08EE		8	E	CM804R-08EE
	8	F, U	CM804-08FF		8	F	CM804R-08FF
	8	U - SINGLE MASTER	CM804-08		8	U	CM804R-08UU
	9	A, B, C, E, F, U	CM804-09A		9	A, B, F	CM804R-09A
	9	A, U	CM804-09AA		9	D, E	CM804R-09B
	9	B, U	CM804-09BB		9	A	CM804R-09AA
	9	C, U	CM804-09CC		9	B	CM804R-09BB
	9	D, U	CM804-09DD		9	C	CM804R-09CC
	9	E, U	CM804-09EE		9	D	CM804R-09DD
	9	F, U	CM804-09FF		9	E	CM804R-09EE
	9	U - SINGLE MASTER	CM804-09		9	F	CM804R-09FF
	10	A, B, C, E, F, U	CM804-10A		9	U	CM804R-09UU
	10	A, U	CM804-10AA		10	A, B, F	CM804R-10A
	10	B, U	CM804-10BB		10	D, E	CM804R-10B
	10	C, U	CM804-10CC		10	A	CM804R-10AA
	10	D, U	CM804-10DD		10	B	CM804R-10BB
	10	E, U	CM804-10EE		10	C	CM804R-10CC
	10	F, U	CM804-10FF		10	D	CM804R-10DD
	10	U - SINGLE MASTER	CM804-10		10	E	CM804R-10EE
	12	A, B, C, E, F, U	CM804-12A		10	F	CM804R-10FF
	12	A, U	CM804-12AA		10	U	CM804R-10UU
	12	B, U	CM804-12BB		12	A, B, F	CM804R-12A
	12	C, U	CM804-12CC		12	D, E	CM804R-12B
	12	D, U	CM804-12DD		12	A	CM804R-12AA
	12	E, U	CM804-12EE		12	B	CM804R-12BB
	12	F, U	CM804-12FF		12	C	CM804R-12CC
	12	U - SINGLE MASTER	CM804-12		12	D	CM804R-12DD
	14	A, B, C, E, F, U	CM804-14A		12	E	CM804R-12EE
	14	A, U	CM804-14AA		12	F	CM804R-12FF
	14	B, U	CM804-14BB		12	U	CM804R-12UU
	14	C, U	CM804-14CC		14	A, B, F	CM804R-14A
	14	D, U	CM804-14DD		14	D, E	CM804R-14B
	14	E, U	CM804-14EE		14	A	CM804R-14AA
	14	F, U	CM804-14FF		14	B	CM804R-14BB
	14	U - SINGLE MASTER	CM804-14		14	C	CM804R-14CC
					14	D	CM804R-14DD
					14	E	CM804R-14EE
					14	F	CM804R-14FF
					14	U	CM804R-14UU

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-804	13	5-15	CM-S-804R	18	5-15

MICRO CONNECTORS

2M804/804 (CONTINUED)

ADAPTOR TOOLS							
PLUG (REMOVABLE PORTION)				RECEPTACLE (STATIONARY PORTION)			
BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
804-001/Plug with Banding Platform 805-002/Plug with Accessory Threads	15	A, B, C, E, F, U	CM804-15A	804-003 Receptacle with Banding Platform 804-004/Receptacle with Accessory Threads	15	A, B, F	CM804R-15A
	15	A, U	CM804-15AA		15	D, E	CM804R-15B
	15	B, U	CM804-15BB		15	A	CM804R-15AA
	15	C, U	CM804-15CC		15	B	CM804R-15BB
	15	D, U	CM804-15DD		15	C	CM804R-15CC
	15	E, U	CM804-15EE		15	D	CM804R-15DD
	15	F, U	CM804-15FF		15	E	CM804R-15EE
	15	U - SINGLE MASTER	CM804-15		15	F	CM804R-15FF
					15	U	CM804R-15UU

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-804	13	5-15	CM-S-804R	18	5-15

MICRO CONNECTORS

2M805/805



MANUFACTURER:
AMPHENOL
GLENAIR

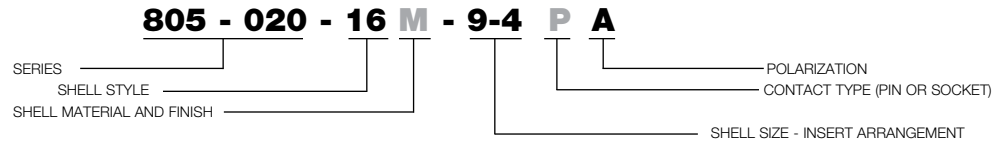
SERIES:
2M
Mighty Mouse

SPECIFICATIONS:
COUPLING METHOD: TRI-START
KEYING POSITIONS: A, B, C, D, E, F
ALTERNATE KEYING METHOD:
EMI/RFI GROUNDING:

SHELL MATERIAL & FINISH:

SHELL	FINISH
ALUMINUM	Black Anodize Electroless Nickel Cadmium w/ Olive Drab Chromate Zinc-Nickel w/ Black Chromate Nickel-PTFE
STAINLESS STEEL	Passivated

TYPICAL CONNECTOR PART NUMBER BREAKDOWN



ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M805-001 / Plug with Integral Backshell	8	A, B, E	CM805-08A*
2M805-002 / Plug with Accessory Threads	8	C, D	CM805-08B*
	8	A	CM805-08AA*
	8	B	CM805-08BB*
	8	C	CM805-08CC*
	8	D	CM805-08DD*
	8	E	CM805-08EE*
	8	F	CM805-08FF*
	9	A, B, E	CM805-09A*
	9	C, D	CM805-09B*
	9	A	CM805-09AA*
	9	B	CM805-09BB*
	9	C	CM805-09CC*
	9	D	CM805-09DD*
	9	E	CM805-09EE*
	9	F	CM805-09FF*
	10	A, B, C, E, F	CM805-10A
	10	A	CM805-10AA
	10	B	CM805-10BB
	10	C	CM805-10CC
	10	D	CM805-10DD
	10	E	CM805-10EE
	10	F	CM805-10FF

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M805-003 / Receptacle with Integral Backshell	8	A, B, F	CM805R-08A
2M805-004 / Receptacle with Accessory Threads	8	D, E	CM805R-08B
	8	A	CM805R-08AA
	8	B	CM805R-08BB
	8	C	CM805R-08CC
	8	D	CM805R-08DD
	8	E	CM805R-08EE
	8	F	CM805R-08FF
	9	A, B, F	CM805R-09A
	9	D, E	CM805R-09B
	9	A	CM805R-09AA
	9	B	CM805R-09BB
	9	C	CM805R-09CC
	9	D	CM805R-09DD
	9	E	CM805R-09EE
	9	F	CM805R-09FF
	10	A, B, F	CM805R-10A
	10	D, E	CM805R-10B
	10	A	CM805R-10AA
	10	B	CM805R-10BB
	10	C	CM805R-10CC
	10	D	CM805R-10DD
	10	E	CM805R-10EE
	10	F	CM805R-10FF

ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-805	16	8-23	CM-S-805R	27	8-23

MICRO CONNECTORS

2M805/805 (CONTINUED)

ADAPTOR TOOLS

PLUG (REMOVABLE PORTION)

RECEPTACLE (STATIONARY PORTION)

BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER	BASIC IDENT. #/DESCRIPTION	SHELL SIZE	KEYING POSITIONS	ADAPTOR TOOL NUMBER
2M805-001 /Plug with Integral Backshell	11	A, B, C, E, F	CM805-11A*	2M805-003 / Receptacle with Integral Backshell	11	A, B, F	CM805R-11A
2M805-002 /Plug with Accessory Threads	11	A	CM805-11AA*	2M805-004 /Receptacle with Accessory Threads	11	D, E	CM805R-11B
	11	B	CM805-11BB*		11	A	CM805R-11AA
	11	C	CM805-11CC*		11	B	CM805R-11BB
	11	D	CM805-11DD*		11	C	CM805R-11CC
	11	E	CM805-11EE*		11	D	CM805R-11DD
	11	F	CM805-11FF*		11	E	CM805R-11EE
	12	A, B, C, E, F	CM805-12A*		11	F	CM805R-11FF
	12	A	CM805-12AA*		12	A, B, F	CM805R-12A
	12	B	CM805-12BB*		12	D, E	CM805R-12B
	12	C	CM805-12CC*		12	A	CM805R-12AA
	12	D	CM805-12DD*		12	B	CM805R-12BB
	12	E	CM805-12EE*		12	C	CM805R-12CC
	12	F	CM805-12FF*		12	D	CM805R-12DD
	15	A, B, C, E, F	CM805-15A*		12	E	CM805R-12EE
	15	A	CM805-15AA*		12	F	CM805R-12FF
	15	B	CM805-15BB*		15	A, B, F	CM805R-15A
	15	C	CM805-15CC*		15	D, E	CM805R-15B
	15	D	CM805-15DD*		15	A	CM805R-15AA
	15	E	CM805-15EE*		15	B	CM805R-15BB
	15	F	CM805-15FF*		15	C	CM805R-15CC
	18	A, B, C, D, E, F	CM805-18A*		15	D	CM805R-15DD
	18	A	CM805-18AA*		15	E	CM805R-15EE
	18	B	CM805-18BB*		15	F	CM805R-15FF
	18	C	CM805-18CC*		18	A, B, F	CM805R-18A
	18	D	CM805-18DD*		18	D, E	CM805R-18B
	18	E	CM805-18EE*		18	A	CM805R-18AA
	23	A, B, C, D, E, F	CM805-23A*		18	B	CM805R-18BB
	23	A	CM805-23AA*		18	C	CM805R-18CC
	23	B	CM805-23BB*		18	D	CM805R-18DD
	23	C	CM805-23CC*		18	E	CM805R-18EE
	23	D	CM805-23DD*		18	F	CM805R-18FF
	23	E	CM805-23EE*		19	A, B, F	CM805R-19A
	23	F	CM805-23FF*		23	A, B, F	CM805R-23A
	23	C	CM805-23CC		23	D, E	CM805R-23B
	23	D	CM805-23DD		23	A	CM805R-23AA
	23	E	CM805-23EE		23	B	CM805R-23BB
	23	F	CM805-23FF		23	C	CM805R-23CC
					23	D	CM805R-23DD
					23	E	CM805R-23EE
					23	F	CM805R-23FF

ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)	ADAPTOR SET PART NO.	ADAPTORS IN SET	COVERAGE (SHELL SIZE)
CM-S-805	16	8-23	CM-S-805R	27	8-23

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 COLUMN WILL BE THE APPLICABLE PAGE NUMBER FOR THE ADAPTOR TOOL SERIES, ALONG WITH MANUFACTURER AND SPECIFICATION REFERENCE INFORMATION.

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	AMPHENOL	MIL-C-22992 CLASSES C, J, R
10-214	6	AMPHENOL	AS505151
10-214	19	AMPHENOL	MIL-C-83723 SERIES II
10-244	6	AMPHENOL	AS505151
10-244	19	AMPHENOL	MIL-C-83723 SERIES II
10-473	8	AMPHENOL	MIL-C-22992 CLASS L
10-72	6	AMPHENOL	AS505151
10-72	19	AMPHENOL	MIL-C-83723 SERIES II
10-741	6	AMPHENOL	AS505151
10-741	19	AMPHENOL	MIL-C-83723 SERIES II
10-747	6	AMPHENOL	AS505151
10-747	19	AMPHENOL	MIL-C-83723 SERIES II
10-873	6	AMPHENOL	AS505151
10-873	19	AMPHENOL	MIL-C-83723 SERIES II
10-874	6	AMPHENOL	AS505151
10-874	19	AMPHENOL	MIL-C-83723 SERIES II
10/71	6	VEAM/LITTON	AS505151
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	AS505151
157	19	AMPHENOL	MIL-C-83723 SERIES II
172	6	AMPHENOL	AS505151
172	19	AMPHENOL	MIL-C-83723 SERIES II
173	6	AMPHENOL	AS505151
173	19	AMPHENOL	MIL-C-83723 SERIES II
179	6	AMPHENOL	AS505151
179	19	AMPHENOL	MIL-C-83723 SERIES II
2M801	23	AMPHENOL	
2M805	31	AMPHENOL	
2000	6	HERMETIC SEAL CORP.	AS505151
2000	19	HERMETIC SEAL CORP.	MIL-C-83723 SERIES II
208	6	AMPHENOL	AS505151
208	19	AMPHENOL	MIL-C-83723 SERIES II
229	8	AMPHENOL	MIL-C-22992 CLASS L
238	6	AMPHENOL	AS505151
238	19	AMPHENOL	MIL-C-83723 SERIES II
246	6	AMPHENOL	AS505151
246	19	AMPHENOL	MIL-C-83723 SERIES II
26500	10	CONNECTOR INDUSTRIES	MIL-C-26500
26500	10	ELECTRONIC	MIL-DTL-26500
26500	10	HERMETIC SEAL CORP.	MIL-DTL-26500

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
348	16	AMPHENOL	MIL-C-81511 SERIES 1 & 3
348	17	AMPHENOL	MIL-C-81511 SERIES 2 & 4
416	12	AMPHENOL	MIL-DTL-38999 SERIES I
418	13	AMPHENOL	MIL-DTL-38999 SERIES II
450	9	DEUTSCH/TE	MIL-DTL-26482 SERIES 1 & 2
450	18	DEUTSCH/TE	MIL-DTL-83723 SERIES I
460	9	DEUTSCH/TE	MIL-DTL-26482 SERIES 1 & 2
460	18	DEUTSCH/TE	MIL-DTL-83723 SERIES I
48	10	AMPHENOL	MIL-DTL-26500
48	20	AMPHENOL	MIL-DTL-83723 SERIES III
48-7005	10	AMPHENOL	MIL-DTL-26500
50	10	GLASSEAL	MIL-DTL-26500
50	20	GLASSEAL	MIL-DTL-83723 SERIES III
5015	6	AMPHENOL	AS505151
5015	6	ELECTRONIC SEALS	AS505151
5015	19	AMPHENOL	MIL-DTL-83723 SERIES II
5015	19	ELECTRONIC SEALS	MIL-DTL-83723 SERIES II
518	10	AMPHENOL	MIL-DTL-26500
518	20	AMPHENOL	MIL-DTL-83723 SERIES III
5388	12	AMPHENOL	MIL-DTL-38999 SERIES I
5565	14	AMPHENOL	MIL-DTL-38999 SERIES III
6000	6	SEALTRON	AS505151
6000	19	SEALTRON	MIL-DTL-83723 SERIES II
602GB	21	AMPHENOL	PATTERN 602
6300	9	SEALTRON	MIL-DTL-26482 SERIES 1 & 2
6300	18	SEALTRON	MIL-DTL-83723 SERIES I
6500	10	SEALTRON	MIL-DTL-26500
6500	20	SEALTRON	MIL-DTL-83723 SERIES III
6600	10	SEALTRON	MIL-C-26500
6600	20	SEALTRON	MIL-C-83723 SERIES III
69	6	AMPHENOL	AS505151
69	19	AMPHENOL	MIL-DTL-83723 SERIES II
700	12	GLASSEAL	MIL-DTL-38999 SERIES I
7000	9	HERMETIC SEAL CORP.	MIL-DTL-26482 SERIES 1 & 2
7000	18	HERMETIC SEAL CORP.	MIL-DTL-83723 SERIES I
72	6	AMPHENOL	AS505151
72	19	AMPHENOL	MIL-C-83723 SERIES II
75	6	VEAM/LITTON	AS505151
75	19	VEAM/LITTON	MIL-C-83723 SERIES II
800	13	GLASSEAL	MIL-C-38999 SERIES II
801	23	GLENAIR	
803	26	GLENAIR	
804	28	GLENAIR	
805	31	GLENAIR	

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
8000	6	SEALTRON	AS505151
8000	19	SEALTRON	MIL-DTL-83723 SERIES II
810	9	DEUTSCH/TE	MIL-DTL-26482 SERIES 1 & 2
810	18	DEUTSCH/TE	MIL-DTL-83723 SERIES I
8100	9	SEALTRON	MIL-DTL-26482 SERIES 1 & 2
8100	18	SEALTRON	MIL-DTL-83723 SERIES I
815	16	DEUTSCH/TE	MIL-DTL-81511 SERIES 1 & 3
815	17	DEUTSCH/TE	MIL-DTL-81511 SERIES 2 & 4
8300	9	SEALTRON	MIL-DTL-26482 SERIES 1 & 2
8300	18	SEALTRON	MIL-DTL-83723 SERIES I
83723	20	HERMETIC SEAL CORP.	MIL-DTL-83723 SERIES III
83723	20	SOURIAU	MIL-DTL-83723 SERIES III
83723 III	20	CONNECTOR INDUSTRIES	MIL-DTL-83723 SERIES III
8500	10	SEALTRON	MIL-DTL-26500
851	9	SOURIAU	MIL-DTL-26482 SERIES 1 & 2
851	18	SOURIAU	MIL-DTL-83723 SERIES I
851*R	9	SOURIAU	MIL-DTL-26482 SERIES 1 & 2
851*R	18	SOURIAU	MIL-DTL-83723 SERIES I
8526	9	SOURIAU	MIL-DTL-26482 SERIES 1 & 2
8526	18	SOURIAU	MIL-DTL-83723 SERIES I
8526	21	SOURIAU	PATTERN 602
8530	10	SOURIAU	MIL-DTL-26500
8530	20	SOURIAU	MIL-DTL-83723 SERIES III
8600	10	SEALTRON	MIL-DTL-26500
88-194	7	AMPHENOL	MIL-DTL-22992 CLASSES C, J, R
880	9	DEUTSCH/TE	MIL-DTL-26482 SERIES 1 & 2
880	18	DEUTSCH/TE	MIL-DTL-83723 SERIES I
8LT	12	SOURIAU	MIL-DTL-38999 SERIES I
IT	13	SOURIAU	MIL-DTL-38999 SERIES II
9—	9	ELECTRONIC SEALS	MIL-DTL-26482 SERIES 1 & 2
9—	18	ELECTRONIC SEALS	MIL-DTL-83723 SERIES I
900000	12	HERMETIC SEAL CORP.	MIL-DTL-38999 SERIES I
900000	13	HERMETIC SEAL CORP.	MIL-DTL-38999 SERIES II
944	6	MATRIX SCIENCE	AS505151
944	19	AMPHENOL	MIL-C-83723 SERIES II
94603	10	DEUTSCH/TE	MIL-C-26500
94603	20	DEUTSCH/TE	MIL-C-83723 SERIES III
97	6	AMPHENOL	AS505151
97	19	AMPHENOL	MIL-C-83723 SERIES II

CONNECTOR IDENTIFICATION

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
9700	12	SEALTRON	MIL-C-38999 SERIES I
9800	13	SEALTRON	MIL-C-38999 SERIES II
981	6	MATRIX SCIENCE	AS505151
981	19	AMPHENOL	MIL-C-83723 SERIES II
9900	14	SEALTRON	MIL-C-38999 SERIES III
A	6	CONNECTOR INDUSTRIES	AS505151
A	19	CONNECTOR INDUSTRIES	MIL-C-83723 SERIES II
AE55	6	AERO ELECTRIC	AS505151
AE55	19	AERO ELECTRIC	MIL-C-83723 SERIES II
AE723	6	AERO ELECTRIC	AS505151
AE723	19	AERO ELECTRIC	MIL-DTL-83723 SERIES II
AE77	9	AERO ELECTRIC	MIL-DTL-26482 SERIES 1 & 2
AE77	18	AERO ELECTRIC	MIL-DTL-83723 SERIES I
AFD	9	DEUTSCH/TE	MIL-DTL-26482 SERIES 1 & 2
AFD	18	DEUTSCH/TE	MIL-DTL-83723 SERIES I
B	10	PYLE-NATIONAL	MIL-DTL-26500
B	20	PYLE-NATIONAL	MIL-DTL-83723 SERIES III
B555	8		MIL-DTL-22992 CLASS L
B556	8	BURNDY	MIL-DTL-22992 CLASS L
B557	8	BURNDY	MIL-DTL-22992 CLASS L
B558	8	BURNDY	MIL-DTL-22992 CLASS L
BACC45F	10	BOEING	MIL-DTL-26500
BACC45F	20	BOEING	MIL-DTL-83723 SERIES III
BACC63	10	BOEING	MIL-DTL-26500
BE	9	GLASSEAL	MIL-DTL-26482 SERIES 1 & 2
BE	18	GLASSEAL	MIL-DTL-83723 SERIES I
BFH	6	ITT CANNON	AS505151
BFH	10	AMPHENOL	MIL-C-26500
BFH	19	ITT CANNON	AS505151
BFH	20	AMPHENOL	MIL-C-83723 SERIES III
BFR	6	ITT CANNON	AS505151
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	AMPHENOL	AS505151
BT-M	19	AMPHENOL	MIL-C-83723 SERIES II
BT-RA	6	AMPHENOL	AS505151
BT-RA	19	AMPHENOL	MIL-C-83723 SERIES II
C	9	CONNECTOR INDUSTRIES	MIL-C-26482 SERIES 1 & 2
C	18	CONNECTOR INDUSTRIES	MIL-C-83723 SERIES I
C48	10	CINCH	MIL-C-26500
CA	6	AS505151	AS505151
CA	19	ITT CANNON	MIL-C-83723 SERIES II
CA-EA	6	ITT CANNON	AS505151

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
CA-EA	19	ITT CANNON	AS505151
CA-EB	6	ITT CANNON	AS505151
CA-EB	19	ITT CANNON	MIL-C-83723 SERIES II
CA-HR	6	ITT CANNON	AS505151
CA-HR	19	ITT CANNON	MIL-C-83723 SERIES II
CA-KE	6	ITT CANNON	AS505151
CA-KE	19	ITT CANNON	MIL-C-83723 SERIES II
CA-RX	6	ITT CANNON	AS505151
CA-RX	19	ITT CANNON	MIL-DTL-83723 SERIES II
CN	15	CINCH	MIL-DTL-38999 SERIES IV
CN0915	10	CINCH	MIL-DTL-26500
CN0930	10	CINCH	MIL-DTL-26500
CN0930	20	CINCH	MIL-DTL-83723 SERIES III
CN0942	10	CINCH	MIL-DTL-26500
CN0966	10	CINCH	MIL-DTL-26500
CN0966	20	CINCH	MIL-DTL-83723 SERIES III
CN0967	10	CINCH	MIL-DTL-26500
CN0967	20	CINCH	MIL-DTL-83723 SERIES III
CT	12	PLESSEY	MIL-DTL-38999 SERIES I
CT	13	PLESSEY	MIL-DTL-38999 SERIES II
CTC	12	DEUTSCH/TE	MIL-C-38999 SERIES I
CV	6	ITT CANNON	AS505151
CV	19	ITT CANNON	MIL-C-83723 SERIES II
CVA	6	ITT CANNON	AS505151
CVA	19	ITT CANNON	MIL-DTL-83723 SERIES II
CWLD	7	ITT CANNON	MIL-DTL-22992 CLASSES C, J, R
D38999/20	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/21	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/23	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/24	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/25	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/26	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/27	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/29	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/30	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/31	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/40	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/41	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/42	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/43	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/44	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/45	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/46	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/47	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/48	14	MILITARY	MIL-DTL-38999 SERIES III
D38999/49	14	MILITARY	MIL-DTL-38999 SERIES III
DB	10	DEUTSCH/TE	MIL-DTL-26500
DB	20	DEUTSCH/TE	MIL-DTL-83723 SERIES III
DBC	9	DEUTSCH/TE	MIL-DTL-26482 SERIES 1 & 2
DBC	18	DEUTSCH/TE	MIL-DTL-83723 SERIES I
DC	9	AMPHENOL	MIL-DTL-26482 SERIES 1 & 2
DC	18	AMPHENOL	MIL-DTL-83723 SERIES I

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DJT	12	DEUTSCH/TE	MIL-DTL-38999 SERIES I
DJT	13	DETORONICS	MIL-DTL-38999 SERIES II
DL	10	DEUTSCH/TE	MIL-DTL-26500
DL	20	DEUTSCH/TE	MIL-DTL-83723 SERIES III
DS	6	DETORONICS	AS505151
DS	19	DETORONICS	MIL-DTL-83723 SERIES II
DT	9	DETORONICS	MIL-DTL-26482 SERIES 1 & 2
DT	18	DETORONICS	MIL-DTL-83723 SERIES I
DTS	14	DEUTSCH/TE	MIL-DTL-38999 SERIES III
DX	10	DETORONICS	MIL-C-26500
DX	20	DETORONICS	MIL-C-83723 SERIES III
EX-A	6	ITT CANNON	AS505151
EX-A	19	ITT CANNON	MIL-C-83723 SERIES II
F	10	PYLE-NATIONAL	MIL-C-26500
FC	6	FLIGHT CONNECTOR	AS505151
FC	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FF0	6	FLIGHT CONNECTOR	AS505151
FF0	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FF5	6	FLIGHT CONNECTOR	AS505151
FF5	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FH	6	FLIGHT CONNECTOR	AS505151
FH	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FPT(21-)	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
FPT(21-)	18	AMPHENOL	MIL-C-83723 SERIES I
FRA	6	ITT CANNON	AS505151
FRA	19	ITT CANNON	MIL-C-83723 SERIES II
FRF	6	ITT CANNON	AS505151
FRF	19	ITT CANNON	MIL-C-83723 SERIES II
FVA	6	ITT CANNON	AS505151
FVA	19	ITT CANNON	MIL-C-83723 SERIES II
FVF	6	ITT CANNON	AS505151
FVF	19	ITT CANNON	MIL-C-83723 SERIES II
FW	6	ITT CANNON	AS505151
FW	19	ITT CANNON	MIL-C-83723 SERIES II
FZC	6	FLIGHT CONNECTOR	AS505151
FZC	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
FZH	6	FLIGHT CONNECTOR	AS505151
FZH	19	FLIGHT CONNECTOR	MIL-C-83723 SERIES II
G	12	CONNECTOR INDUSTRIES	MIL-C-38999 SERIES I
G	13	CONNECTOR INDUSTRIES	MIL-DTL-38999 SERIES II
GB	9	GLASSEAL	MIL-DTL-26482 SERIES 1 & 2
GB	18	GLASSEAL	MIL-DTL-83723 SERIES I
GC	9	GENERAL CONNECTOR	MIL-DTL-26482 SERIES 1 & 2

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GC'C	18	GENERAL CONNECTOR	MIL-DTL--83723 SERIES I
GS	6	ITT CANNON	AS505151
GS	11	HUGHES	MIL-DTL-28840
GS	19	ITT CANNON	MIL-DTL-83723 SERIES II
GSP	6	GLASSEAL	AS5015
GSP	19	GLASSEAL	MIL-DTL--83723 SERIES II
GT	11	HUGHES	MIL-DTL--28840
H	13	CONNECTOR INDUSTRIES	MIL-DTL--38999 SERIES II
HD	11	IPI (SAE)	MIL-DTL--28840
HK	7	AMPHENOL	MIL-DTL--22992 CLASSES C, J, R
HM SERIES	12	IPI (SAE)	MIL-DTL--38999 SERIES I
HM SERIES	13	IPI (SAE)	MIL-DTL--38999 SERIES II
HS06	6	HERMETIC SEAL CORP.	AS50151
HS06	19	HERMETIC SEAL CORP.	MIL-DTL-83723 SERIES II
HT	6	AMPHENOL	AS50151
HT	19	AMPHENOL	MIL-DTL-83723 SERIES II
HTMF	10	ITT CANNON	MIL-DTL-28500
HTMF	20	ITT CANNON	MIL-DTL-83723 SERIES III
JT	13	AMPHENOL	MIL-DTL-38999 SERIES II
K	9	CONNECTOR INDUSTRIES	MIL-DTL-26482 SERIES 1 & 2
K	18	CONNECTOR INDUSTRIES	MIL-DTL-83723 SERIES I
KFS	11	ITT CANNON	MIL-DTL-28840
KJ	13	ITT CANNON	MIL-DTL-38999 SERIES II
KJA	14	ITT CANNON	MIL-DTL-38999 SERIES III
KJJ	13	ITT CANNON	MIL-DTL-38999 SERIES II
KJL	12	ITT CANNON	MIL-DTL-38999 SERIES I
KJL	12	ITT CANNON	MIL-DTL-38999 SERIES I
KP*	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KP*	18	ITT CANNON	MIL-DTL-83723 SERIES I
KPD	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KPD	18	ITT CANNON	MIL-DTL-83723 SERIES I
KPSE	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KPSE	18	ITT CANNON	MIL-DTL-83723 SERIES I
KPT	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KPT	18	ITT CANNON	MIL-DTL-83723 SERIES I
KPTM	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KPTM	18	ITT CANNON	MIL-DTL-83723 SERIES I
KS*	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KS*	18	ITT CANNON	MIL-DTL-83723 SERIES I
KSP	9	ITT CANNON	MIL-DTL-26482 SERIES 1 & 2
KSP	18	ITT CANNON	MIL-DTL--83723 SERIES I
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LM'C	19	BURNDY	MIL-DTL-83723 SERIES II
MO	6	IPI (SEA)	AS505151
MO	19	IPI (SAE)	MIL-DTL-83723 SERIES II
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M28840/11	11	MILITARY	MIL-DTL--28840
M28840/12	11	MILITARY	MIL-DTL--28840
M28840/16	11	MILITARY	MIL-DTL--28840
M28840/16	11	MILITARY	MIL-DTL--28840
M28840/17	11	MILITARY	MIL-DTL--28840
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M28840/19	11	MILITARY	MIL-DTL--28840
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M28840/21	11	MILITARY	MIL-DTL--28840
M28840/26	11	MILITARY	MIL-DTL--28840
M28840/28	11	MILITARY	MIL-DTL--28840
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M5	6	IPI (SAE)	AS505151
M5	19	IPI (SAE)	MIL-DTL-83723 SERIES II
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M723	19	MATRIX SCIENCE	MIL-DTL--83723 SERIES II
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M81511/02	17	MILITARY	MIL-DTL--81511 SERIES 2 & 4
M81511/03	17	MILITARY	MIL-DTL--81511 SERIES 2 & 4
M81511/04	17	MILITARY	MIL-DTL--81511 SERIES 2 & 4
M81511/05	17	MILITARY	MIL-DTL--81511 SERIES 2 & 4
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M81511/22	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
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M81511/25	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
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M81511/27	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
M81511/28	17	MILITARY	MIL-DTL--81511 SERIES 2 & 4
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M81511/35	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
M81511/36	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
M81511/37	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
M81511/38	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
M81511/41	16	MILITARY	MIL-DTL--81511 SERIES 1 & 3
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M81511/44	16	MILITARY	MIL-DTL-81511 SERIES 1 & 3
M81511/45	16	MILITARY	MIL-DTL-81511 SERIES 1 & 3
M81511/46	16	MILITARY	MIL-DTL-81511 SERIES 1 & 3
M81511/47	16	MILITARY	MIL-DTL-81511 SERIES 1 & 3
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M81511/49	16	MILITARY	MIL-DTL-81511 SERIES 1 & 3
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M81511/51	17	MILITARY	MIL-DTL-81511 SERIES 2 & 4
M81511/52	17	MILITARY	MIL-DTL-81511 SERIES 2 & 4
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M83723/02	18	MILITARY	MIL-DTL--83723 SERIES I
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M83723/05	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/06	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/07	18	MILITARY	MIL-DTL--83723 SERIES I
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M83723/09	18	MILITARY	MIL-DTL--83723 SERIES I
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M83723/12	18	MILITARY	MIL-DTL--83723 SERIES I
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M83723/16	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/17	19	MILITARY	MIL-DTL--83723 SERIES II
M83723/18	19	MILITARY	MIL-DTL--83723 SERIES II
M83723/19	19	MILITARY	MIL-DTL--83723 SERIES II
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M83723/25	19	MILITARY	MIL-DTL--83723 SERIES II
M83723/26	19	MILITARY	MIL-DTL--83723 SERIES II
M83723/36	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/37	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/38	18	MILITARY	MIL-DTL--83723 SERIES I
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M83723/42	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/43	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/48	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/49	18	MILITARY	MIL-DTL--83723 SERIES I
M83723/52	19	MILITARY	MIL-DTL--83723 SERIES II
M83723/53	19	MILITARY	MIL-DTL--83723 SERIES II
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M83723/67	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/68	20	MILITARY	MIL-DTL--83723 SERIES III
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M83723/71	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/72	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/73	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/74	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/75	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/76	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/77	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/78	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/79	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/80	20	MILITARY	MIL-DTL--83723 SERIES III
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M83723/93	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/94	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/95	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/96	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/97	20	MILITARY	MIL-DTL--83723 SERIES III
M83723/98	20	MILITARY	MIL-DTL--83723 SERIES III
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MB91	12	MATRIX SCIENCE	MIL-DTL-38999 SERIES I
MB92	13	MATRIX SCIENCE	MIL-DTL-38999 SERIES II
MFR	6	MATRIX SCIENCE	AS505151
MFR	19	MATRIX SCIENCE	MIL-DTL-83723 SERIES II
MHD	8	MATRIX SCIENCE	MIL-DTL-22992 CLASS L
ML94	15	MATRIX SCIENCE	MIL-DTL-38999 SERIES IV
MMB	10	CINCH	MIL-DTL-26500
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MS17344	7	MILITARY	MIL-DTL-22992 CLASSES C, J, R
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MS17347	7	MILITARY	MIL-DTL-22992 CLASSES C, J, R
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MS24264	10	MILITARY	MIL-DTL-26500
MS24265	10	MILITARY	MIL-DTL-26500
MS24266	10	MILITARY	MIL-DTL-26500
MS24183	6	MILITARY	AS505151
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MS27034	10	MILITARY	MIL-DTL-26500
MS27466	12	MILITARY	MIL-DTL-38999 SERIES I
MS27467	12	MILITARY	MIL-DTL-38999 SERIES I
MS27468	12	MILITARY	MIL-DTL-38999 SERIES I
MS27469	12	MILITARY	MIL-DTL-38999 SERIES I
MS27470	12	MILITARY	MIL-DTL-38999 SERIES I
MS27471	12	MILITARY	MIL-DTL-38999 SERIES I
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MS27477	13	MILITARY	MIL-DTL-38999 SERIES II
MS27478	13	MILITARY	MIL-DTL-38999 SERIES II
MS27479	13	MILITARY	MIL-DTL-38999 SERIES II
MS27480	13	MILITARY	MIL-DTL-38999 SERIES II
MS27481	13	MILITARY	MIL-DTL-38999 SERIES II
MS27482	13	MILITARY	MIL-DTL-38999 SERIES II
MS27483	13	MILITARY	MIL-DTL-38999 SERIES II
MS27484	13	MILITARY	MIL-DTL-38999 SERIES II
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MS27497	13	MILITARY	MIL-DTL-38999 SERIES II
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MS27504	13	MILITARY	MIL-DTL-38999 SERIES II
MS27505	12	MILITARY	MIL-DTL-38999 SERIES I
MS27508	13	MILITARY	MIL-DTL-38999 SERIES II
MS27513	13	MILITARY	MIL-DTL-38999 SERIES II
MS27515	12	MILITARY	MIL-DTL-38999 SERIES I
MS27613	10	MILITARY	MIL-DTL-26500
MS27616	10	MILITARY	MIL-DTL-26500
MS27615	10	MILITARY	MIL-DTL-26500
MS27652	12	MILITARY	MIL-DTL-38999 SERIES I
MS27653	12	MILITARY	MIL-DTL-38999 SERIES I
MS27654	12	MILITARY	MIL-DTL-38999 SERIES I
MS27656	12	MILITARY	MIL-DTL-38999 SERIES I
MS27661	12	MILITARY	MIL-DTL-38999 SERIES I
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MS3103	6	MILITARY	AS505151
MS3106	6	MILITARY	AS505151
MS3107	6	MILITARY	AS505151
MS3108	6	MILITARY	AS505151
MS3120	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
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MS3454	6	MILITARY	AS505151
MS3456	6	MILITARY	AS505151
MS3459	6	MILITARY	AS505151
MS3470	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3471	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3472	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3473	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3474	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3475	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3476	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3477	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3479	9	MILITARY	MIL-DTL-26482 SERIES 1 & 2
MS3507	6	MILITARY	AS505151
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
P	12	CONNECTOR INDUSTRIES	MIL-C-38999 SERIES I
PL	15	FLIGHT CONNECTOR	MIL-C-38999 SERIES IV
PT	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
PT	18	AMPHENOL	MIL-C-83723 SERIES I
PT*CE	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
PT*CE	18	AMPHENOL	MIL-C-83723 SERIES I
PT*SE	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2

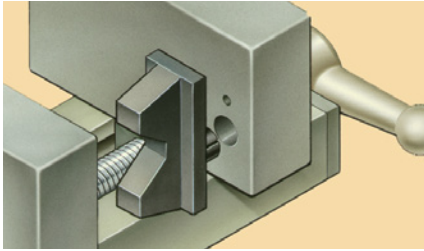
PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
PT*SE	18	AMPHENOL	MIL-C-83723 SERIES I
PTS*DR	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
PTS*DR	18	AMPHENOL	MIL-C-83723 SERIES I
PV	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PV	18	ITT CANNON	MIL-C-83723 SERIES I
PVA	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PVA	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
PWW	9	ITT CANNON	MIL-C-26482 SERIES 1 & 2
PWW	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	AMPHENOL	MIL-C-22992 CLASSES C, J, R
RBC	9	DEUTSCH/TE	MIL-C-26482 SERIES 1 & 2
RBC	18	DEUTSCH/TE	MIL-C-83723 SERIES I
RR	21	HELLERMANN DEUTSCH/TE	PATTERN 602
S*A-2000	6	HERMETIC SEAL CORP.	AS505151
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)	AS505151
SA	19	IPI (SAE)	MIL-C-83723 SERIES II
SCP	6	AMPHENOL	AS505151
SCP	19	AMPHENOL	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

PREFIX	PAGE	MANUFACTURER	CONNECTOR SERIES (REFERENCE)
SERIES III	14	ELECTRONIC SEALS	MIL-C-38999 SERIES III
SERIES IV	15	ELECTRONIC SEALS	MIL-C-38999 SERIES IV
SJT	22	AMPHENOL	SJT
SP	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
SP	18	AMPHENOL	MIL-C-83723 SERIES I
SP*CE	9	AMPHENOL	MIL-C-26482 SERIES 1 & 2
SP*CE	18	AMPHENOL	MIL-C-83723 SERIES I
T3	14	PYLE-NATIONAL	MIL-C-38999 SERIES III
TBF	6	AMPHENOL	AS505151
TBF	6	ITT CANNON	AS505151
TBF	19	AMPHENOL	MIL-C-83723 SERIES II
TBF	19	ITT CANNON	MIL-C-83723 SERIES II
TBFH	6	ITT CANNON	AS505151
TBFH	19	ITT CANNON	MIL-C-83723 SERIES II
TCT	14	PLESSEY	MIL-C-38999 SERIES III
TV	14	AMPHENOL	MIL-C-38999 SERIES III
VE	6	VEAM/LITTON	AS505151
VE	19	VEAM/LITTON	AS505151
VG	6	VEAM/LITTON	AS505151
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	AS505151
VS	19	VEAM/LITTON	MIL-C-83723 SERIES II
VTBF	6	VEAM/LITTON	AS505151
VTBF	19	VEAM/LITTON	MIL-C-83723 SERIES II
VUT	9	VEAM/LITTON	MIL-C-26482 SERIES 1 & 2
VUT	18	VEAM/LITTON	MIL-C-83723 SERIES I
WFS	6	ITT CANNON	AS505151
WFS	19	ITT CANNON	MIL-C-83723 SERIES II
ZZ	10	PYLE-NATIONAL	MIL-C-26500

CONNECTOR MATE® ASSEMBLY VISE



The continuing demands of electrical system designers have imposed such rapid development in the field of interconnection technology that new and different hardware is emerging to meet those demands. Along with the introduction of these new, and often more complex connectors and accessories, the challenge for versatile and reliable production tooling becomes apparent. To this end, DMC has accepted the challenge by developing the assembly station vise which provides a reliable and repeatable holding method for countless combinations of connectors and accessories. The use of removable soft-grip jaw inserts allows the vise to easily accommodate all popular connector diameters. This is a reliable method of retaining circular parts and torquing at low values while avoiding damage to critical platings and retaining the circular shape of delicate parts.



HOW THE ASSEMBLY VISE WORKS

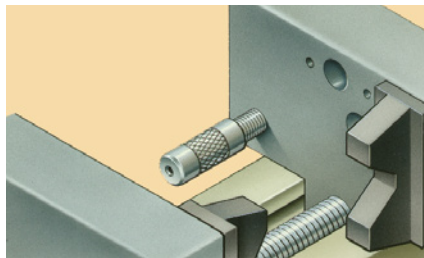
The system consists of non-marring jaw inserts and a specially designed vise to hold them. They can be used to hold any circular part within the size range available, including connectors, backshell accessories and adaptor tools.

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.

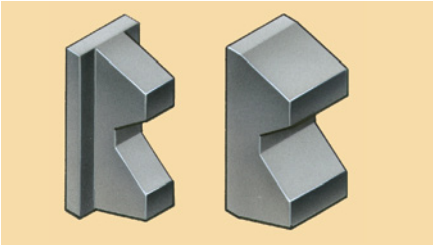
Self-Centering: Because the jaws move towards each other, the work is always centered in the vise, and therefore, lateral stress and unnecessary movement of the work pieces are not introduced into the process.



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.

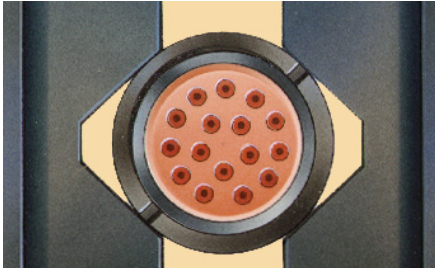


Jaws are available in two gripping widths — .400" and 1.000".

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.

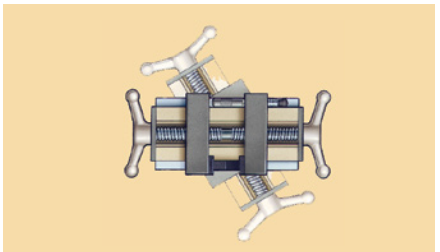


If the force is applied on opposite sides (only two pressure points), the circular part will tend to collapse, and this will produce false torque readings because of increased friction between the components where the threads have been forced together.

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

DIGITAL TORQUE WRENCH



**BT-ST-302D
Torque Wrench**

Higher torque ratings to meet mechanical fastening specifications for self-locking threads, 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, versatile, 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.

Many times, torque is only thought of as a means to prevent an assembly from loosening under vibration or other external forces. However, 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 and/or composite materials. Such damage may increase the risk of failure, and/or cause a reduced service life of the wiring system.

DMC's BT-ST-302D Digital Torque Tool provides OEMs and field service technicians with a simple and efficient way to precisely measure torque values. This state-of-the-art product was developed specifically to meet the demands of connector final assembly. A Reverse Head model is also available Part Number BT-ST-302DR.



**BT-ST-302DR
Reverse Torque Wrench**

Several features of the tool make it a great addition to the DMC BETA™ Connector Accessory Tool product line.

- CW or CCW ratcheting drive
- Visual and/or audible indication when the force torque reaches 40%, 60%, 80%, 100%, and 104% of the set torque
- Modes: Preset, Track or Peak for Torque, and Angle Mode
- Data storage of last 1,500 torque values
- USB interface (cable included)
- Data Download: 302D is exported as a common CSV file that can be read in common spreadsheet software (i.e., Microsoft Excel)
- Auto Turn-Off/Low Battery display
- Splash-Proof, protected against water & moisture, metal components are chrome plated for maximum corrosion resistance
- Ruggedized, withstands drops and rough handling without failure
- 1/4" drive adaptor included
- Standard AA battery (1 battery is included)
- Torque overload display and audible signal
- ISO-6789-203 and ASME B107-28-2005 Standards Compliant

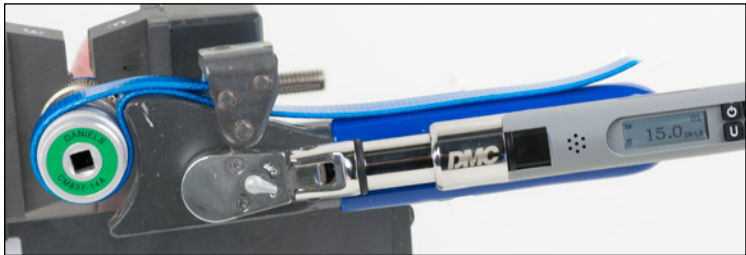


An optional bench mount is available Part Number **BM-302D** which can be configured in a vertical or horizontal position for use with **BT-ST-302DR**

HAND-HELD DIGITAL TORQUE TOOLS	
BT-ST-302D	DIGITAL TORQUE TOOL, 12 - 240 INCH POUNDS
BT-D-0551	ADAPTER - 3/8" DRIVE TO 1/4" SOCKET (INCLUDED)
BT-ST-302DR	REVERSE HEAD DIGITAL TORQUE TOOL, 12 - 240 INCH POUNDS
BM-302D	BENCH MOUNT (OPTIONAL) FOR USE ONLY WITH BT-ST- 302DR

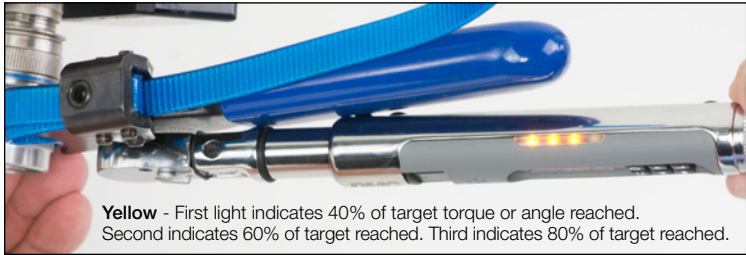
TORQUE ACCURACY					
IN-LB	FT-LB	KG-CM	N-M	DNM	ACCURACY (READING)
48-240	4 - 20	55.3 - 276.5	5.4 - 27.1	54.2 - 271.2	CW +/-2% CCW +/-3%
12 - 45.6	1 - 3.8	13.8 - 52.5	1.4 - 5.2	13.6 - 51.5	CW +/-4% CCW +/-6%
DMC TORQUE WRENCH CALIBRATION DATA IS TRACEABLE TO NIST.					

DIGITAL TORQUE TOOL ACCESSORIES



STRAP WRENCH ATTACHMENT FOR THE DIGITAL TORQUE TOOL

DMC's handle-less strap wrench (pictured below) 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-302D** and provides accurate torque without the interference of the strap wrench handle.



Yellow - First light indicates 40% of target torque or angle reached. Second indicates 60% of target reached. Third indicates 80% of target reached.



Green - Indicates target torque or angle reached.



Red - Indicates exceeded torque or angle target plus 4% or exceeded maximum preset target.

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 are available, in several different head configurations, so the system is suited to all common connector applications. See our BETA™ catalog or web site at www.dmctools.com for a full list of strap wrench part numbers.

NOTE: Torque correction is required when using strap wrench extensions. Information available from DMC.

HANDLE-LESS STRAP WRENCH		
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"

*Profile for small diameters



Handle-less strap wrench

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
A	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"
B	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"
C	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"
C	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"
E	THE HANDLE-LESS STRAP WRENCHES ARE PRESENTED ON PAGE 45.				

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

See Torque Conversion Charts on page 47 for use of strap wrenches and torque measurement tools.



STRAP WRENCHES

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 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.

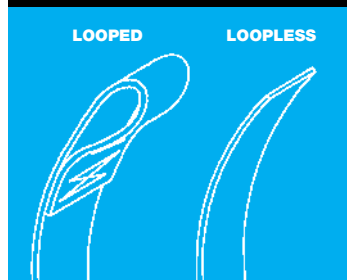
The Red Strap is the same material and construction as the Blue Strap, but it is thicker and stronger for higher torque range tightening and increased durability. This heavy duty construction allows it to be used on smooth or knurled surfaces, and can be used to tighten fittings with 1.0 inch diameters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

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.

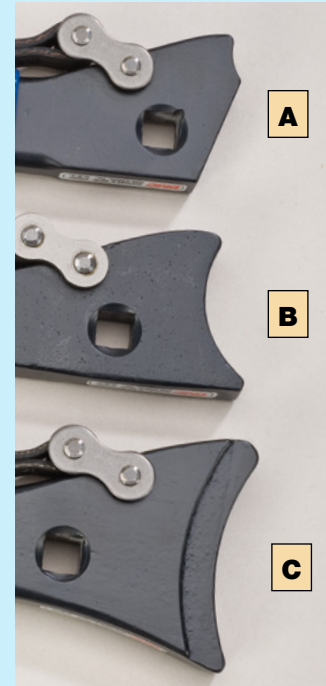
STRAP COLORS					
COLOR	SMALL DIAMETERS	MEDIUM DIAMETERS	LARGE DIAMETERS	TORQUE RANGE	LOOPLESS AVAILABLE
BLACK	X	X	X	MED	X
BLUE*	X	X	X	MED-HIGH	X
RED		X	X	HIGH	X
WHITE		X	X	HIGH	

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

STRAP CONFIGURATIONS



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.

D: (NOT PICTURED) 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.

LOOPLESS-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.

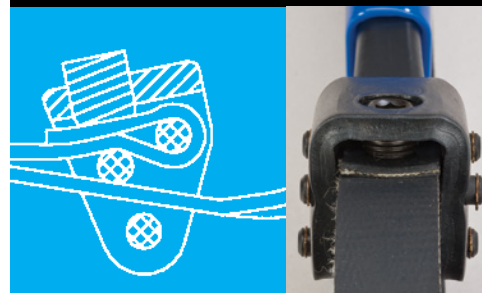
The Loopless Strap Tool Series uses a clamping buckle to attach a loopless strap to the wrench body. When a loopless strap breaks at the strain point, the majority of the strap is still usable. The operator simply removes the broken section, installs the remaining strap, and continues working.

LOOPLESS-STRAP STRAP WRENCHES					
TOOL TIP STYLE	WRENCH P/N	STRAP P/N	STRAP WIDTH (COLOR)	STRAP LOOPED	SUGGESTED GRIP-PING DIAMETER
A	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"
B	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""
C	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""
C	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 straps are preferred for general connector/accessory use.

SEE TORQUE CONVERSION CHARTS ON PAGE 47 FOR USE OF STRAP WRENCHES AND TORQUE MEASUREMENT TOOLS.

LOOPLESS STRAP INSTALLATION



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



Loopless-Strap
Strap Wrench

Loopless
Strap



Looped Strap
Strap Wrench

Looped
Strap

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 GRIP-PING 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"

RETROFIT KIT COMPONENTS



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-302D/BT-ST-302DR Digital Torque Tool and provides accurate torque without the interference of the strap wrench handle.

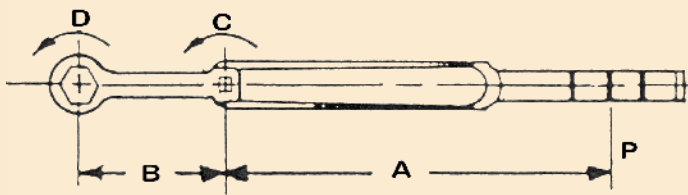
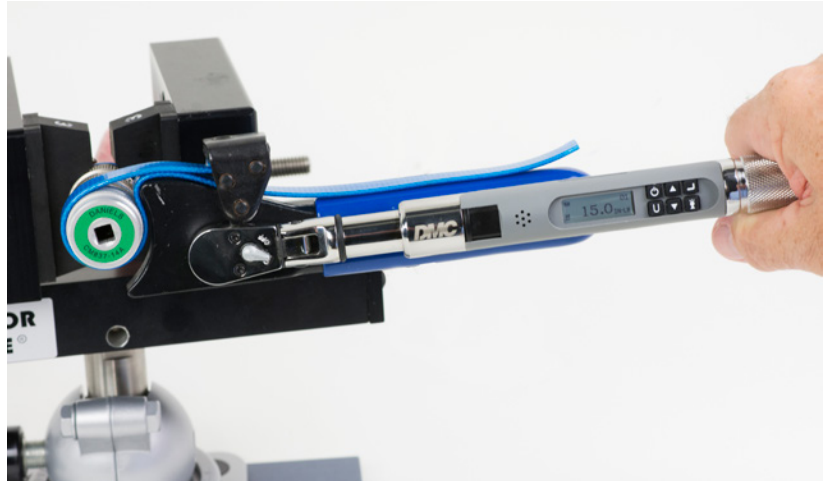
SEE TORQUE CONVERSION CHARTS ON PAGE 47 FOR USE OF STRAP WRENCHES AND TORQUE MEASUREMENT TOOLS.

HANDLE-LESS STRAP WRENCHES FOR TORQUE WRENCHES					
TOOL TIP STYLE	WRENCH P/N	STRAP P/N	STRAP WIDTH (COLOR)	STRAP LOOPED	SUGGESTED GRIP-PING DIAMETER
HANDLE-LESS LOOPED STRAP WRENCHES					
A	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"
B	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"
C	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"
C	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 LOOPLESS STRAP WRENCHES					
A	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"
B	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"
C	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"
C	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 GENERAL INFORMATION

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. See AIR 6151 (SAE) for more information torque for connector/backshell assembly.



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

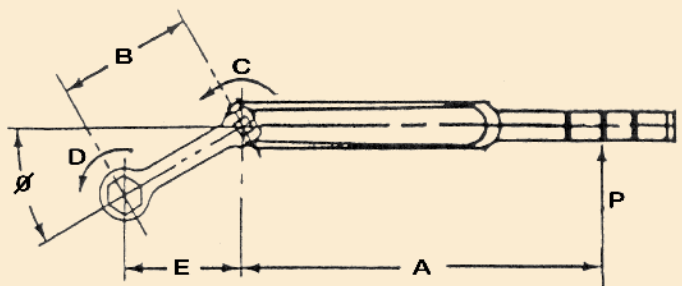
- A** = (Length) Distance from center of torque wrench square drive to center of the puller's hand grip.
- B** = Distance from center of torque wrench square drive to center of drive at end of extension.
- C** = (Torque) Torque wrench setting.
- D** = Torque desired at drive on end of extension.
- P**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

To determine torque wrench setting:

$$C = (D \cdot A) / (A + B)$$

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.

$$E = (B)(\cos \ Ø)$$

Therefore:

$$C = (D \cdot A) / (A + (B \cdot \cos \ Ø))$$

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

When $\ Ø = 90^\circ$, $\cos \ Ø = 0$ then $C = D$
(Regardless of the length **B**)
(Ref AIR 6151)

TORQUE CONVERSION CHARTS

These torque conversion charts were calculated for the **BT-ST-302D/BT-ST-302DR Digital Torque Tool**. If any other torque tool or instrument is used, calculate the torque conversion by using the mathematical formula on page 46. See page 63 for torque recommendations (Ref AIR6151).

TORQUE CONVERSION CHART FOR BT-BS-611 AND BT-BS-618 SERIES USED WITH BT-ST-302D									
DIAMETER OF PART BEING TIGHTENED	DESIRED TORQUE VALUE (IN-LBS)								
	40	60	80	100	120	140	160	180	200
1.00"	33	50	67	83	100	117	134	150	167
1.50"	33	50	66	83	99	116	132	149	165
1.75"	33	49	65	82	98	114	131	147	163
2.00"	32	48	64	80	96	112	128	144	160
2.25"	32	48	63	79	95	111	127	143	158
2.50"	31	47	63	78	94	110	126	141	157
2.75"	31	47	62	78	93	109	124	140	155
3.00"	31	46	62	77	92	108	123	138	154
3.25"	30	46	61	76	91	107	122	137	152
3.50"	30	45	60	75	90	106	121	136	151
3.75"	30	45	60	75	90	105	119	134	149
4.00"	30	44	59	74	89	104	118	133	148
TORQUE READING ON INSTRUMENT ("C")									

TORQUE CONVERSION CHART FOR BT-BS-609 SERIES USED WITH BT-ST-302D									
DIAMETER OF PART BEING TIGHTENED	DESIRED TORQUE VALUE (IN-LBS)								
	40	60	80	100	120	140	160	180	200
0.50"	35	53	70	88	106	123	141	158	176
0.75"	35	52	70	87	105	122	139	157	174
1.00"	34	52	69	86	103	121	138	155	172
1.50"	34	51	67	84	101	118	135	152	169
1.75"	33	50	67	83	100	117	134	150	167
2.00"	33	50	66	83	99	116	132	149	165
2.25"	33	49	65	82	98	115	131	147	164
2.50"	32	49	65	81	97	113	130	146	162
TORQUE READING ON INSTRUMENT ("C")									

TORQUE CONVERSION CHART FOR BT-BS-610 SERIES USED WITH BT-ST-302D									
DIAMETER OF PART BEING TIGHTENED	DESIRED TORQUE VALUE (IN-LBS)								
	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
1.75"	34	51	68	84	101	118	135	152	169
2.00"	33	50	67	83	100	117	133	150	166
2.25"	33	49	66	82	99	115	132	148	165
2.50"	32	49	65	81	97	113	130	146	162
TORQUE READING ON INSTRUMENT ("C")									

GENERAL PURPOSE BACKSHELL/ACCESSORY TOOLS

TOOL IDENTIFICATION CHART		
A	BT-HT-110	1/4" SOCKET DRIVE HANDLE
B	BT-HT-210	1/4" STATIONARY DRIVE MOUNTING ARM
	BT-HT-211	3/8" STATIONARY DRIVE MOUNTING ARM
C	BT-D-0551	3/8" TO 1/4" ADAPTER
	BT-D-0622	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	M-7LB	ILLUMINATED MAGNIFIER

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



JAM NUT SOCKET TOOLS



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.

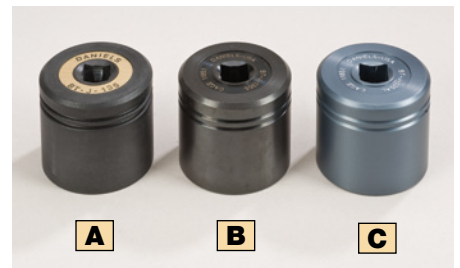
ALUMINUM JAM NUT SOCKETS

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 hole 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.

The traditional "General Purpose" formed stainless steel sockets (on page 50) are great for non-torque specific Jam Nut applications. Jam nut durability test report available upon request - contact DMC customer service.



A COMPOSITE (NON-MARKING)

B STEEL

C ALUMINUM



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



COMPOSITE OR METAL JAM NUT SOCKETS				
DMC PART NUMBER	FITS JAM NUT SIZE: INCHES	FITS JAM NUT SIZE: MIL-LIMETERS	SQUARE DRIVE	OUTSIDE DIAMETER REFERENCE
BT-J-117	.608" TO .628"	15.41 MM TO 15.95 MM	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"	68.02 TO 70.33	3/8"	3.44"
BT-J-163	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"
*NOT AVAILABLE IN COMPOSITE MATERIAL.				

PART NUMBER **BT-J -XXX XX**

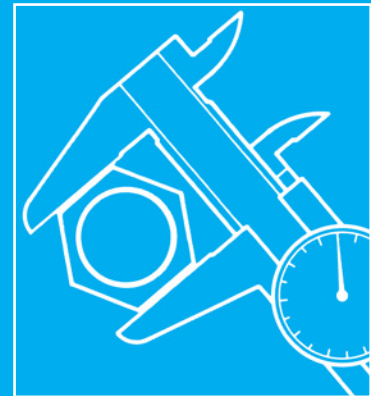
BASIC P/N

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 receptacles.

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 COMPOSITE
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 34) are recommended.

TORQUE CONVERSION CHART FOR JR700 TOOL USED WITH BT-ST-302D/BT-ST-302DR									
DIAMETER OF PART BEING TIGHTENED	DESIRED TORQUE VALUE (IN-LBS) ("D")								
	40	60	80	100	120	140	160	180	200
0.50"	25	38	51	64	76	89	102	115	127
0.75"	26	39	51	64	77	90	103	116	128
1.00"	26	39	52	65	78	91	104	117	129
1.50"	26	40	53	66	79	92	106	119	132
1.75"	27	40	53	67	80	93	107	120	133
2.00"	27	40	54	67	81	94	108	121	135
2.25"	27	41	54	68	82	95	109	122	136
2.50"	27	41	55	69	82	96	110	124	137
2.75"	28	42	55	69	83	97	111	125	139
3.00"	28	42	56	70	84	98	112	126	140
3.25"	28	42	57	71	85	99	113	127	141
	TORQUE READING ON INSTRUMENT ("C")								

SEE TORQUE CONVERSION CHARTS ON PAGE 47 FOR USE OF STRAP WRENCHES AND TORQUE MEASUREMENT TOOLS.

CONNECTOR PLIERS

CIRCULAR RING PLIERS

The DRPXX circular ring pliers are specifically designed to grip circular connector and backshell components which would be deformed by other gripping methods. The non marring 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-RS-1). This replacement pad is supplied as a 4.25" strip that must be cut to length needed.



Durable hinge allows tool to open 180°.

Pads are easily replaceable.

TOOL PART NUMBER	GRIP RANGE*	
	INCH	METRIC (MM)
DRP7, DRP7N**	0.50 TO 0.53	12.70 TO 13.46
DRP8, DRP8N**	0.56 TO 0.59	14.22 TO 14.98
DRP9, DRP9N**	0.62 TO 0.65	15.74 TO 16.51
DRP10, DRP10N**	0.67 TO 0.70	17.01 TO 17.78
DRP11, DRP11N**	0.74 TO 0.77	18.79 TO 19.55
DRP12, DRP12N*	0.80 TO 0.83	20.32 TO 21.08
DRP13, DRP13N**	0.85 TO 0.88	21.59 TO 22.35
DRP14, DRP14N**	0.89 TO 0.92	22.60 TO 23.36
DRP15, DRP15N**	0.97 TO 1.00	24.63 TO 25.40
DRP16, DRP16N**	1.05 TO 1.08	26.67 TO 27.43
DRP17, DRP17N**	1.08 TO 1.11	27.43 TO 28.19
DRP18, DRP18N**	1.11 TO 1.14	28.19 TO 28.95
DRP19, DRP19N**	1.20 TO 1.23	30.48 TO 31.24
DRP20, DRP20N**	1.27 TO 1.30	32.25 TO 33.02
DRP21, DRP21N**	1.33 TO 1.36	33.78 TO 34.54
DRP22, DRP22N**	1.39 TO 1.42	35.30 TO 36.06
DRP23, DRP23N**	1.45 TO 1.48	36.83 TO 37.59
DRP24, DRP24N**	1.49 TO 1.52	37.84 TO 38.60
DRP25, DRP25N**	1.57 TO 1.60	39.87 TO 40.64
DRP26, DRP26N**	1.61 TO 1.64	40.89 TO 41.65
DRP27, DRP27N**	1.76 TO 1.79	44.70 TO 45.46
DRP28, DRP28N**	1.89 TO 1.92	48.00 TO 48.76
DMC1924	SET OF 15 DRP SERIES PLIERS AND 10 REPLACEMENT PADS	
DRP-RS-1	REPLACEMENT PAD FOR ALL DRP SERIES PLIERS	

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).



BT-SJ-468

Mini soft-jaw pliers are available with straight head (BT-SJ-509R) and 30 degree angled head (BT-SJ-509A). These pliers adjust quickly and allow for one-handed operation. The narrow jaw design allows access to the tight places and the non-marring jaws (BT-SJ-509A-1) are durable and easy to replace.



BT-SJ-509R



BT-SJ-509A

*On a smooth surface. Knurled surfaces slightly below this range are compatible with these tools.

**These part numbers indicate pliers sizes with a more narrow head.

EMI SHIELD BANDING TOOLS

ONE-STEP .250 WIDE BANDS

DMC's one-step banding tools are built to SAE AS81306/1 specifications and designed to install stamped bands. The tension-lock system gives the operator a positive indication when the precise tension has been applied. The cut-off handle easily cuts, bends, and locks the shield band in one step.



DBS-2100 (M81306/1A)

.250 Wide Band One-Step Tool
Includes DBS-2100-32



DBS-2102 (M81306/1-01)

.250 Wide Band One-Step Tool Kit
Kit includes DBS-2100, DBS-2100-32 and,
DBS-CG7

The .250 wide stamped bands are available in coiled and flat options. They are made of corrosion resistant steel and conform to AS85049.



DBS-128-4 (M85049/128-4)

.250 Wide Stamped Band - Coiled



DBS-128-3 (M85049/128-3)

.250 Wide Stamped Band - Flat

The **DBS-CG7** verification gage is available to check the tension of the DBS-2100. This gage has a precise compression mechanism which has a sequence of indicators to verify that the applied tension is within the specified range (145-155 lbf) for the band being applied. It is recommended to check the tension of the banding tool periodically and adjust it as necessary.



DBS-CG7 (M81306/1C)

Verification Gage

EMI SHIELD BANDING TOOLS

ONE-STEP .125 WIDE BANDS



DBS-2200 (M81306/1B)

.125 Wide Mini-Band One-Step Tool
Includes DBS-2100-32



DBS-2202 (M81306/1-02)

.125 Wide Mini-Band One-Step Tool Kit
Kit includes DBS-2200, DBS-2100-32 and,
DBS-CG8

The .125 wide stamped mini-bands are available in coiled and flat options. They are made of corrosion resistant steel and conform to AS85049.



DBS-128-7 (M85049/128-7)

.125 Wide Stamped Mini-Band - Flat



DBS-128-8 (M85049/128-8)

.125 Wide Stamped Mini-Band -
Coiled

The DBS-CG8 verification gage is available to check the tension of the DBS-2200. This gage has a precise compression mechanism which has a sequence of indicators to verify that the applied tension is within the specified range (75-85 lbf) for the band being applied. It is recommended to check the tension of the banding tool periodically and adjust it as necessary.



DBS-CG8 (M81306/1D)

Verification Gage

DMC also offers an electronic calibration instrument (DBS-CG4D) which allows the operator to gage the exact tension produced by the tool. The DBS-CG4D can be used with either the DBS-2200 or the DBS-2100 tool. This instrument is calibrated by DMC, and traceable to NIST.



EMI SHIELD BANDING TOOLS

TWO-STEP .250 WIDE BANDS

DMC's manual two-step banding tools are built to SAE AS81306/2 specifications and designed to install welded bands. These tools tension and cut the band and leave an extended cut off tab. A roll-over tool is then used to bend the extended cut off tab 180° to prevent slippage. Pneumatic versions are also available which offer improved ergonomics and are ideal for high production environments.



DBS-1100 (M81306/2-01A)

.250 Wide Band Two-Step Tool
Includes DBS-1100-32



DBS-1102

.250 Wide Band Two-Step Tool Kit
Includes DBS-1100, DBS-R03, DBS-1100-32, DBS-CG2, and G691



PBT1100

.250 Wide Band Two-Step
Pneumatic Tool

The .250 wide welded bands are available in coiled and flat options. This configuration is folded and welded with a loop for the other end of the band to pass through. They are made of corrosion resistant steel and conform to AS85049.



DBS-128-6 (M85049/128-6)

.125 Wide Welded Band - Coiled



DBS-128-5 (M85049/128-5)

.125 Wide Welded Band - Flat

The **DBS-CG2A** verification system allows operators to check that the tension of the DBS-1100 and PBT1100 is within the specified range (140-160 lbf) for the band being applied. This system consists of a compression fixture (DBS-CG2) and a Go/No-Go gage (G691). It is recommended to check the tension of the banding tool periodically and adjust it as necessary.



DBS-CG2A (M81306/2-01E)

Verification System

EMI SHIELD BANDING TOOLS

TWO-STEP .125 WIDE MINI-BANDS



DBS-1200 (M81306/2-02B)
.125 Wide Mini-Band Two-Step Tool
Includes DBS-1200-32



DBS-1202
.125 Wide Mini-Band Two-Step Tool Kit
Includes DBS-1200, DBS-R05, DBS-CG3, and G752



PMBT1200
.125 Wide Mini-Band Two-Step
Pneumatic Tool

The .125 wide welded mini-bands are available in coiled and flat options. This configuration is folded and welded with a loop for the other end of the band to pass through. They are made of corrosion resistant steel and conform to AS85049.



DBS-128-1 (M85049/128-1)
.125 Wide Welded Mini-Band - Flat



DBS-128-2 (M85049/128-2)
.250 Wide Welded Mini-Band - Coiled

The **DBS-CG3A** verification system allows operators to check that the tension of the DBS-1200 and PMBT1200 is within the specified range (62-82 lbf) for the band being applied. This system consists of a compression fixture (DBS-CG3) and a Go/No-Go gage (G752). It is recommended to check the tension of the banding tool periodically and adjust it as necessary.



DBS-CG3A (M81306/2-02F)
Verification System

The **DBS-CG1** verification instrument will allow the operator to measure the exact tension produced by the tool. The DBS-CG1 can be used with the DBS-1200, DBS-1100, PBT1100, and PMBT1200 tools.

The **DBS-CG1-F** is a holding fixture designed to aid the calibration process by securing the DBS-CG1 and banding tool in place.



DBS-CG1
Verification Instrument
for Two-Step Tools



DBS-CG1-F
Holding Fixture for DBS-CG1

EMI SHIELD BANDING TOOLS

TOOLS, KITS, AND ACCESSORIES

BANDING TOOL ACCESSORIES				
DMC PART #	DESCRIPTION	ONE-STEP OR TWO-STEP	BAND WIDTH	MILITARY PART #
DBS-R05	ROLL-OVER TOOL	TWO-STEP	.125	M81306/2-02D
DBS-R03	ROLL OVER TOOL	TWO-STEP	.250	M81306/2-01C
DBS-2200-MB*	REPLACEMENT MOVABLE BLADE	ONE-STEP	.125	--
DBS-2100-MB	REPLACEMENT MOVABLE	ONE-STEP	.250	--
DBS-1100-7	REPLACEMENT BLADE	TWO-STEP	.125 & .250	--
DBS-2100-SB	REPLACEMENT STATIONARY BLADE	ONE-STEP	.250	--
DBS-2200-SB	REPLACEMENT STATIONARY BLADE	ONE-STEP	.125	--
DBS-1100-32	TENSION ADJUSTMENT KEY	TWO-STEP	.125 & .250	--
DBS-2100-32	TENSION ADJUSTMENT KEY	ONE-STEP	.125 & .250	M81306/1E
DBS-CG2	VERIFICATION GAGE FOR DBS-1100	TWO-STEP	.250	--
DBS-CG3	VERIFICATION GAGE FOR DBS-1200	TWO-STEP	.125	--
G691	GO/NO-GO GAGE FOR DBS-CG2	TWO-STEP	.250	--
G752	GO/NO-GO GAGE FOR DBS-CG3	TWO-STEP	.125	--

*Not field replaceable.

ADDITIONAL BANDING TOOL KITS				
DMC PART #	DESCRIPTION	ONE-STEP OR TWO-STEP	BAND WIDTH	MILITARY PART #
DMC2058A	INCLUDES DBS-2100, DBS-2200, DBS-2100-32, DBS-CG7, DBS-CG8, DBS-128-3 (10 QTY), DBS-128-7 (10 QTY)	ONE-STEP & TWO STEP	.125 & .250	--
DBS-1101	INCLUDES DBS-1100, DBS-R03, DBS-1100-32	TWO-STEP	.250	M81306/2-01
DBS-1201	INCLUDES DBS-1200, DBS-R05, DBS-1200-32	TWO-STEP	.125	M81306/2-02
DMC60A	INCLUDES DBS-1100, DBS-R03, DBS-1100-32, DBS-BR1, DBS-CG2, G691, DBS-1100-7 (2 QTY), BANDS (100 QTY), SHEARS (2 QTY), HEX WRENCH (3 QTY), ADJUSTMENT WRENCH, TAPE, BRAIDED SHIELDING, SPLIT RINGS	TWO-STEP	.250	--
DMC1379	INCLUDES DBS-1100, DBS-R03, DBS-1100-32, DBS-BR1, DBS-CG2, G691, BANDS (50 QTY)	TWO-STEP	.250	--

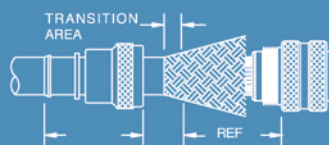
SPLIT RING FOR MID-CABLE SHIELD TERMINATIONS		
DMC PART #	DIAMETER	MILITARY PART #
4-1376	.500	M85049/93-08
4-1377	.750	M85049/93-12
4-1378	1.00	M85049/93-16
4-1379	1.50	M85049/93-24

Additional EMI shield band tool kits and split rings are available. Contact DMC for more information.

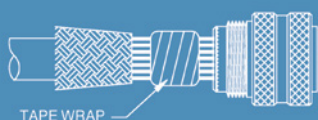
EMI/RFI BAND APPLICATION SYSTEM FOR .125 & .250 SHIELD TERMINATION BANDS



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.

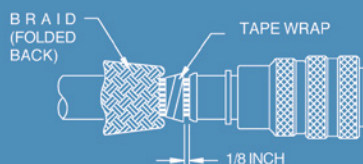
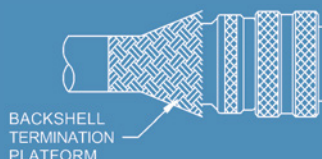


Then the braid is carefully folded rearward to expose the wires which will be inside the backshell.

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.

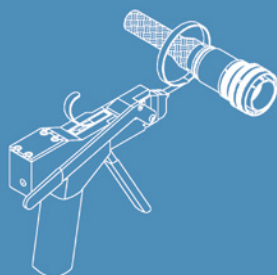
The backshell is then installed onto the connector, using a nonabrasive tool such as a strap wrench.



The braid is then carefully moved from under the backshell. It is important to retain the woven characteristics of the braid during this step.

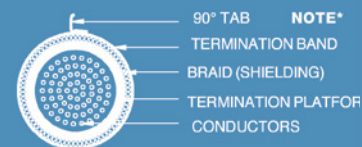
Use self-vulcanizing tape or a preformed component to build up the area behind the backshell. It is important that the braid is supported in the transition from the backshell rear diameter to the natural diameter of the wire bundle. Leave approximately 1/8 inch spacing between the tape wrap and the backshell.

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.



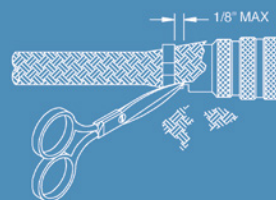
A shield termination band is then loaded into the tool. The band is then slid over the connector/backshell assembly into a position of alignment with the termination platform.

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 (applies to two-step only). If the band is uncured for any reason, it must be double looped through the buckle before termination.



The 90° tab is then curled and folded back over the buckle using the rollover tool (applies to two-step only).

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.



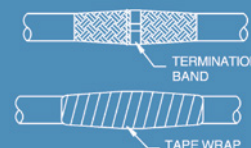
The wire bundle is then protected by a few wraps of self-vulcanizing tape followed by 2-3 layers of teflon tape. An appropriate size split-ring set is then selected and installed. One layer of teflon tape is applied over the split ring set to hold the halves in position while the next steps are being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



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.



*NOTE: 2 Step Tool shown. These instructions are general and apply to One Step and Two Step tools. If these instructions conflict with engineering processes, the latter shall apply.

BETA ADAPTOR KITS

KIT CONFIGURATION MAY VARY FROM EXAMPLE SHOWN.
CONFIGURATION DEPENDS ON APPLICATION, USER
REQUIREMENTS, AND PACKAGING NEEDS OF THE CUSTOMER.



BETA ADAPTOR TOOL KITS
MORE THAN JUST A BOX OF TOOLS!

DMC's Adaptor Tool Kits are designed to keep your BETA tools organized and provide all the necessary information concerning the selection and use of the tooling. A collection of tools and accessories are packaged in a well organized case or cabinet. And the complete support data package makes a DMC Kit more than just a box of tools. DMC has designed and manufactured system service kits longer than anyone in the connector tooling industry. This experience has enabled DMC the capabilities to design a wiring system service kit for virtually any electrical interconnect system. DMC Kits have proven their reliability and versatility over years of dependable service to the manufacturing and MRO industries. We offer an extensive line of maintenance/repair kits, production (work station) kits, and tool sets, many of which contain tools from the BETA product line. For a listing of wiring system maintenance tool kits, or assistance with your individual requirements, contact DMC. Many BETA Backshell Tools are available with other DMC products in existing DMC Wiring System Service Kits or in a different configuration than those shown. Please consult DMC for your specific requirements.



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, RF/EMI, CATEGORY 2B	MIL-DTL-38999 SERIES III AND IV CONNECTORS	14, 15
AS85049/19	BACKSHELL, NONENVIRONMENTAL, STRAIGHT, RF/EMI, CATEGORY 3B	MIL-DTL-38999 SERIES III AND IV CONNECTORS	14, 15
AS85049/20	BACKSHELL, STRAIGHT, RF, 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 Environmental Backshell

Right Angle Tie Strap Backshell



Straight Non-Environmental Strain Relief Backshell

Strain Relief Backshells with Shield Sockets



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

AS85049 CONNECTOR ACCESSORIES QUICK REFERENCE GUIDE

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/25	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
AS85049/26	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	MIL-DTL-38999 SERIES I AND II CONNECTORS	12, 13
AS85049/30	BACKSHELL, NONENVIRONMENTAL, STRAIGHT, INDIVIDUAL SHIELDED WIRE TERMINATION, CATEGORY 3B	MIL-DTL-38999 SERIES I AND II CONNECTORS	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	AS50151 SOLDER TYPE, V THREAD OF MS310X, CLASSES A, B, C OR K CONNECTORS	6
AS85049/42	NONENVIRONMENTAL, STRAIN RELIEF, STRAIGHT, CATEGORY 4A	AS50151 SOLDER TYPE, V THREAD OF MS310X, CLASSES A, B, C OR K CONNECTORS	6
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	MIL-DTL-27599 SERIES I AND MIL-DTL-38999 SERIES I AND II CONNECTORS	12, 13
AS85049/47	STRAIN RELIEF, 90°, SELF- LOCKING AND NONSELF- LOCKING, CATEGORY 4C	MIL-DTL-38999 SERIES I AND II CONNECTORS	12, 13
AS85049/48	STRAIN RELIEF, STRAIGHT, CATEGORY 7	MIL-DTL-24308 RECTANGULAR CONNECTORS	N/A
AS85049/49	STRAIN RELIEF, STRAIGHT, SELF-LOCKING AND NONSELF- LOCKING, CATEGORY 4C	MIL-DTL-38999 SERIES I AND II 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	AS50151 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS	6, 9, 20



Extended Backshells



Straight Non-Environmental
Strain Relief Backshells



Compression Ring



Straight Environmental Backshell

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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	6, 9, 20
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	6, 9, 20
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	12, 13
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	6, 9, 20
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	MIL-DTL-38999 SERIES III AND IV CONNECTORS	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-38999 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	AS50151 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS	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



Shorting Cap Backshell

Protective Cover and Lanyard



Dummy Contacts
(Ref: AS85049/80)

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

AS85049 CONNECTOR ACCESSORIES QUICK REFERENCE GUIDE

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/86	BACKSHELL, 45°, 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
AS85049/87	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
AS85049/89	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
AS85049/90	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	MIL-DTL-38999 (COMPOSITE) SERIES III AND IV CONNECTORS	14, 15
AS85049/93	TERMINATION, SHIELD, SPLIT SUPPORT RING, COMPOSITE, NONENVIRONMENTAL, STRAIGHT, CATEGORY 7	GENERAL USE	N/A
AS85049/94	MOUNTING DEVICE, FLANGE TYPE, FULL PERIMETER, MEDIUM/LIGHT DUTY, CATEGORY 7	GENERAL USE	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



Jam Nut for Panel Mount Connectors



Nut Plate for Mounting Connectors



Right Angle EMI Shielded Backshell

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

AS85049 CONNECTOR ACCESSORIES

QUICK REFERENCE GUIDE

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/118	BACKSHELL, STRAIN RELIEF, STRAIGHT, 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
AS85049/120	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	52-55
AS85049/130	GASKET MATERIAL, CONDUCTIVE, NON CONDUCTIVE, FLANGE MOUNT, CATEGORY 7	GENERAL USE	N/A

SPECIFICATION	TITLE	APPLICATION	PAGE
AS85049/131	CONNECTOR ACCESSORIES, FIBER OPTIC, STRAIGHT, SELF-LOCKING, CATEGORY 3B	MIL-DTL-38999 SERIES III AND AS5590/1 CONNECTORS	14
AS85049/132	CONNECTOR ACCESSORIES, FIBER OPTIC, 45°, SELF-LOCKING, CATEGORY 3B	MIL-DTL-38999 SERIES III AND AS5590/1 CONNECTORS	14
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	GENERAL USE	N/A
AS85049/140	BOOTS, HEAT-SHRINKABLE, STRAIGHT, CATEGORY 9	GENERAL USE	N/A
AS85049/141	BOOTS, HEAT-SHRINKABLE, 90°, CATEGORY 9	GENERAL USE	N/A
AS85049/142	BOOTS & SLEEVES, TRANSITIONS, HEAT-SHRINKABLE, CATEGORY 9	GENERAL USE	N/A

Band Termination System



*EMI Shielded Backshells
for Rectangular Connectors*

*Shield Termination Bands
(Ref: AS85049/128)*



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

TORQUE TIGHTENING REFERENCE (FROM SAE-AIR 6151 STANDARD)

The SAE AIR 6151 Aerospace Information Report (Torque, Threaded Application, Electrical Connector, Accessory and Terminal Board Installation) was the product of work by DMC and other experienced aerospace wiring system designers, manufacturers, and component suppliers (including connectors and backshells/accessories). We recommend the use of this valuable industry specification for torque relating to connectors and other threaded components. The following tables reflect Torque Values (based on Connector Classification) and are presented here as a quick reference guide. The SAE AIR6151 is available at www.sae.org by typing AIR6151 into the search box, and following the instructions for purchase and download.

CONNECTOR ACCESSORY* TORQUE/IN-LB (SOURCE SAE AIR6151)					
CONNECTOR SHELL SIZES	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
	MIN/MAX	MIN/MAX	MIN/MAX	MIN/MAX	MIN/MAX
8,9,A	30/40	51/61	20/25	66/77	91/101
3,10,10SL, 11, B	30/40	71/81	20/30	103/113	115/125
7,12,12S,13,C	35/45	103/113	25/35	115/125	115/125
14,14S,15,D	35/45	111/121	25/35	139/149	139/149
16,16S,17,E	35/45	111/121	30/40	139/149	139/149
18,19,27,F	35/45	111/121	30/40	139/149	175/185
20,21,37,G	75/85	131/141	35/45	175/185	199/209
22,23,H	75/85	131/141	35/45	175/185	223/233
24,25,61,J	75/85	131/141	35/45	175/185	259/269
28,29	115/125	143/153	115/125	187/197	307/317
32,33	115/125	143/153	SEE PAGE 40 FOR INFORMATION ON TORQUE APPLICATION TOOLING		
36	115/125	142/153			
40	155/165	159/169			
44	155/165	159/169			
48	155/165	159/169			

Connector Accessory Recommended Torque (Backshell Installation)

Recommended torque for accessories such as those defined in SAE AS85049 to connector rear threads are listed in the table above.

Group 1 is for aluminum connectors and medium/light duty accessories including connector series; AS50151 (AS31001 Series), MIL-DTL-26482 Series 1, MIL-DTL-26500, MIL-DTL-27599, MIL-DTL-38999 Series I and II, MIL-C-81511 Series 1, 2, 3, 4, AS81703 Series 1.

Group 2 is for aluminum connectors and heavy duty accessories including connector series; AS50151 (AS34001 Series), MIL-DTL-22992, MIL-DTL-26482 Series 2, MIL-DTL-28840, MIL-DTL-38999 Series III and IV, AS81703 Series 3, MIL-DTL-83723 Series 1, 2, 3.

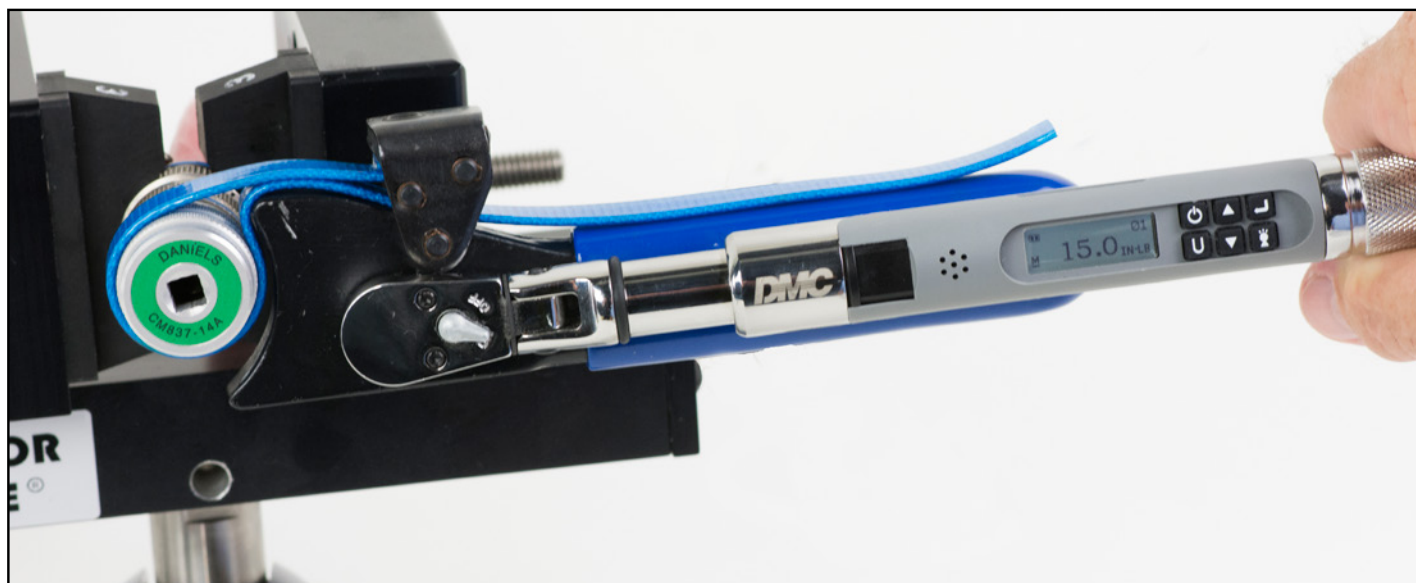
Group 3 is for connectors and accessories with composite (high grade engineering thermoplastic) material coupling threads.

Group 4 is for connectors and accessories with aluminum coupling threads used in high vibration (engine) applications.

Group 5 is for connectors and accessories with corrosion resistant steel coupling threads used in high vibration (engine) applications.

*Source for torque values: AIR6151 Rev B.

TORQUE TIGHTENING REFERENCE (FROM SAE AIR6151 STANDARD)



Typical Application - Torque Tightening a Connector Assembly

RECOMMENDED CONNECTOR RECEPTACLE JAM NUT TORQUE/IN-LB MIL-DTL-38999 (SOURCE SAE AIR6151)

RECOMMENDED TORQUE (MAX/MIN)	SERIES I	SERIES II	RECOMMENDED TORQUE (MAX/MIN)	SERIES III	SERIES IV
28/34	9		30/36	09	
30/36			40/46	11	
34/40	11		55/60	13	11
40/46		8	70/75	15	13
46/50			70/75		15
50/55	13	10	80/85	17	
55/60			80/85		17
70/75	15	12	90/95	19	
75/80			100/110	21	19
80/85	17	14	110/120	23	21
80/85	19	16	120/130	25	23
100/110			120/130		25
105/115	21	18	SEE PAGE 48 FOR DETAILS ON BETA JAM-NUT TOOLING FROM DMC		
105/115	23	20			
110/120	25	22			
120/130		24			

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		

Additional NSNs may be available, consult DMC.



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