

DEUTSCH DMC-M Series

Multicavity EN4165 Connectors

The Rugged, Modular Solution for
Flexible, Reliable Aerospace Connectivity

DEUTSCH DMC-M Multicavity Connectors



**Flexible Modularity
Rugged for Harsh Environments
EN4165 Compliant**

DEUTSCH DMC-M Series Multicavity EN4165

MODULARITY

- Crimp and PCB contacts size 24 to size 08
- Signal, coaxial, microcoax, Quadrax, power, optical, thermocouple contacts
- High-speed Ethernet modules
- Aluminum cable compliant

FLEXIBLE

- Easily replaced modules for fast reconfiguration
- Allows mixing of male and female modules in each connector half
- Wide range of modules allows great flexibility in input/output configurations

WEIGHT OPTIMIZATION

- Nickel or cadmium-plated composite shells
- Compact solution

EASY TO INSTALL

- 36 keying possibilities
- Quick-install coupling

RELIABLE

- Environmental sealing
- Vibration resistant
- EMI protection as per EN4165 standard
- Meets FAA flammability, smoke, and toxicity requirements
- EN4165 and BACC65 compliant

Modular, Compact, and Weight Saving

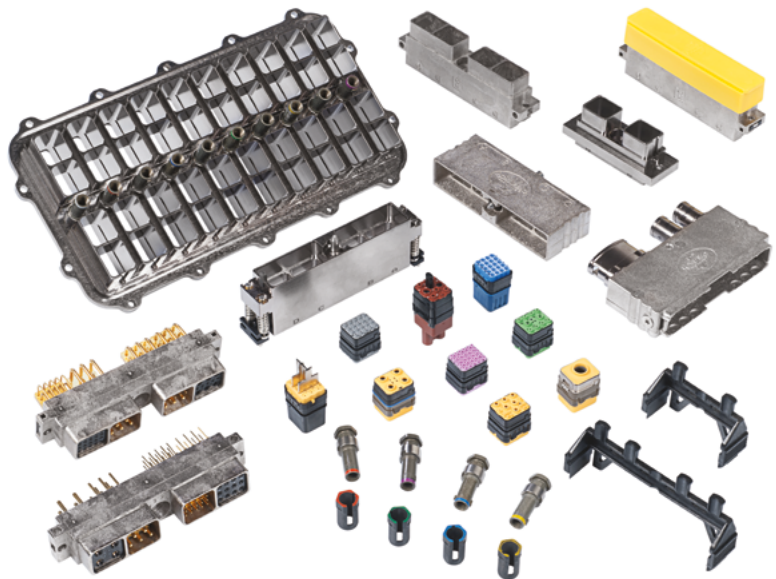
Originally designed in the 1980s, DEUTSCH DMC-M connectors from TE Connectivity (TE) have evolved into one of the most widely used connector styles for cabin applications in commercial aerospace. Standardized in European Standard EN4165, DMC-M connectors provide a modular, flexible, and reliable system. The connectors are available in both multi-cavity and single-module configurations, using the same modules, to provide compact, lightweight connectivity.

Gain Flexibility

Today this connector continues to attract new users and applications because of its modularity, space/weight savings and robustness. In addition, it has evolved to include composite housings, aluminum wire capability, fiber optics, higher densities, and shunting configurations.

Save Weight

The DMC-M shells are available in lightweight aluminum alloy or composite, with nickel or cadmium plating, to withstand harsh environments. For EMI protection, the connectors use 360° shielding on the shell interfaces.



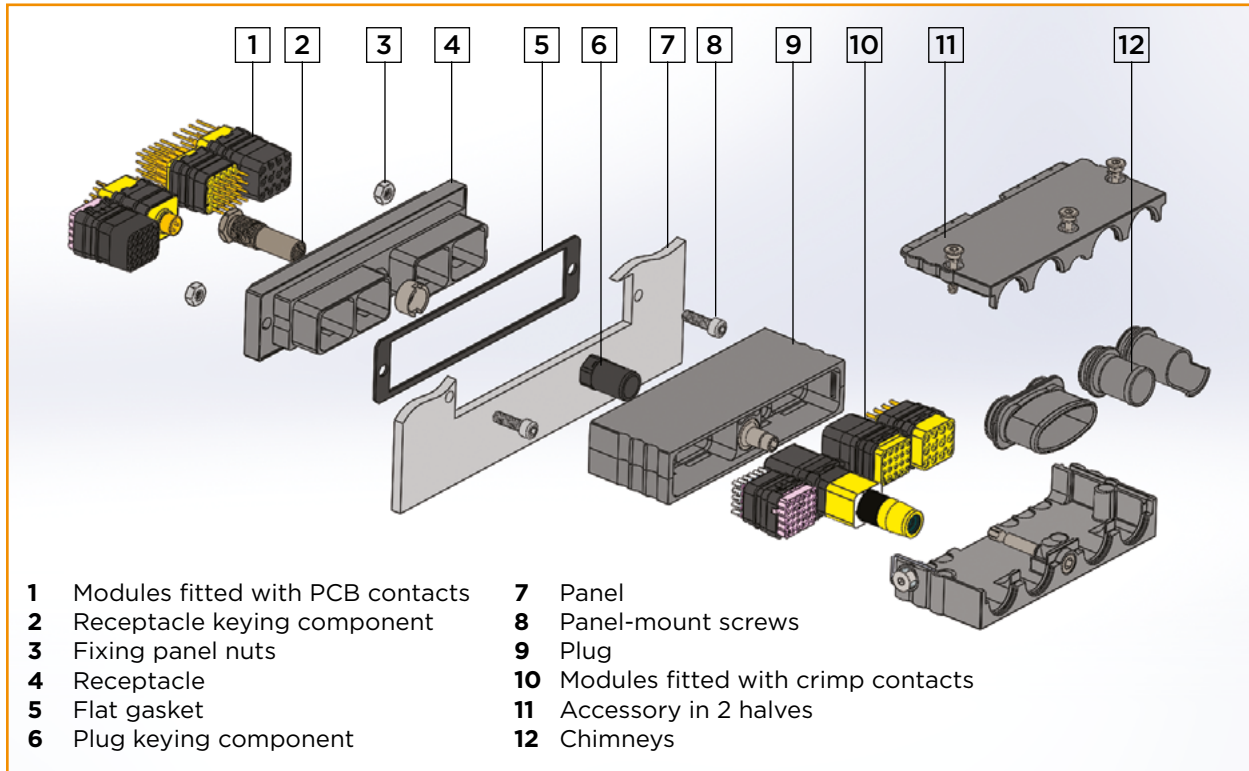
TE Components . . . TE Technology . . . TE Know-how . . .
AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem
SEACON | Rochester | DEUTSCH

Empower Engineers to Solve Problems, Moving the World Forward.

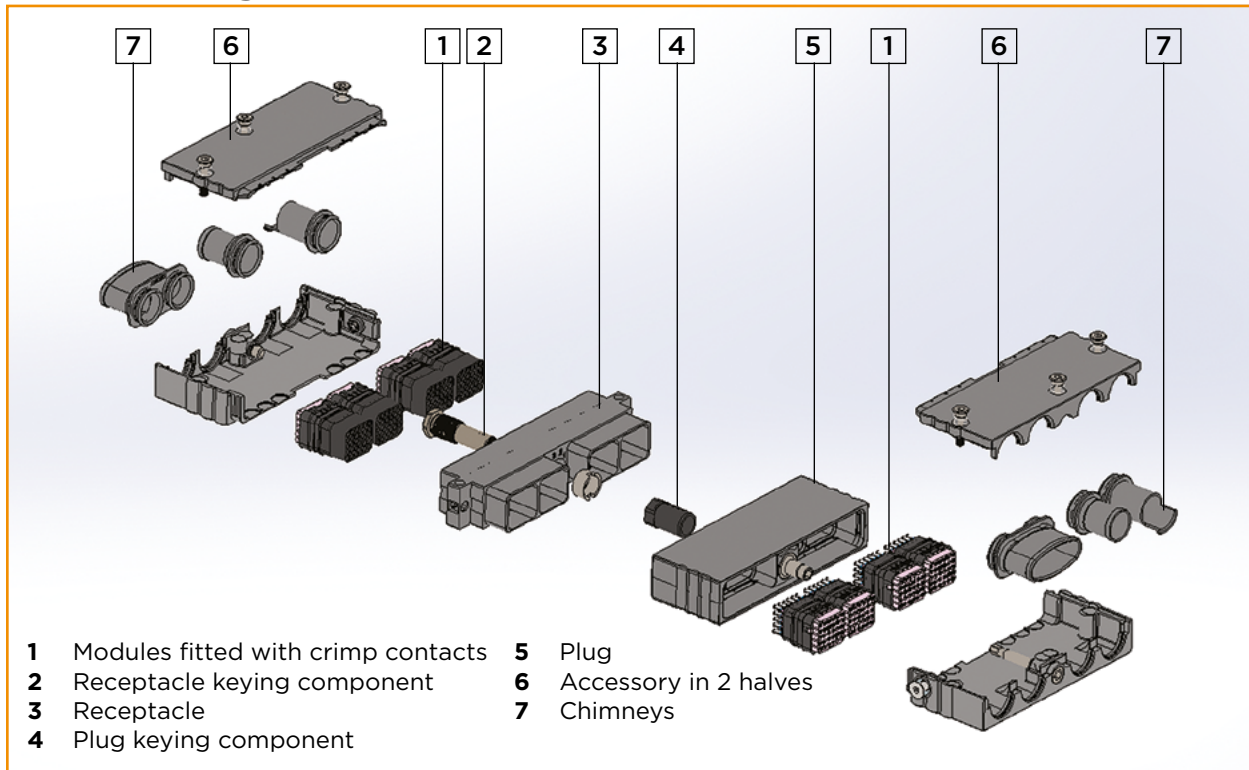


TYPICAL CONFIGURATIONS

Wire-to-Board Configuration



Wire-to-Wire Configuration

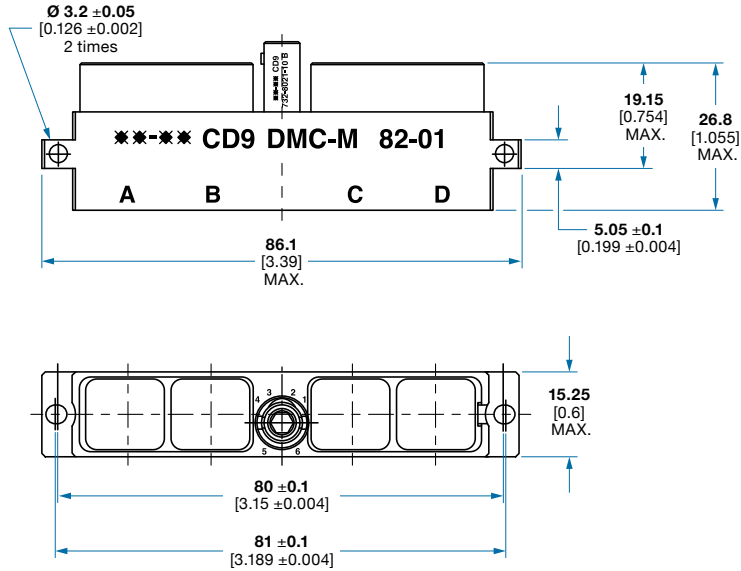




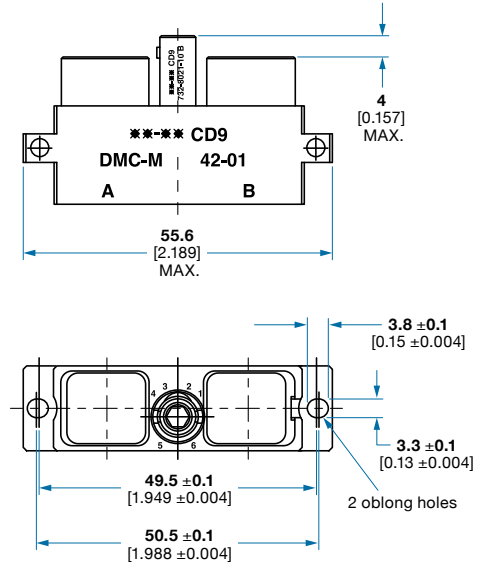
RECEPTACLES

STACKABLE RECEPTACLES

DMC-M 82-01: 4 Modules

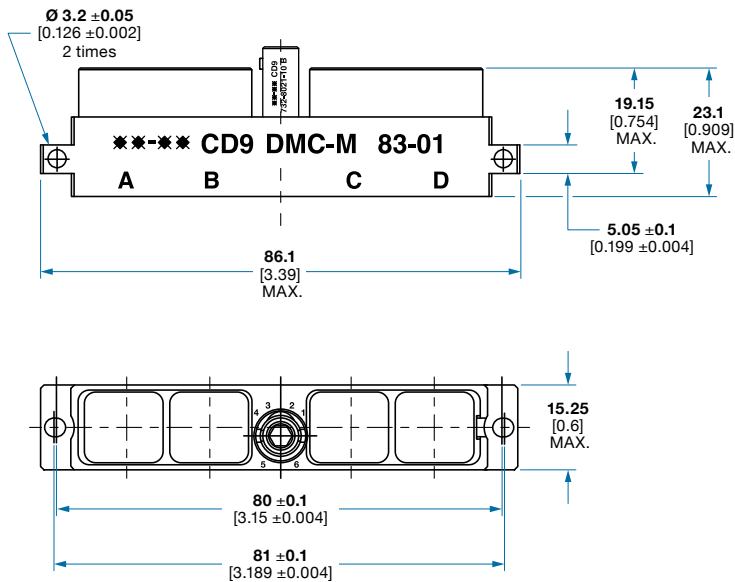


DMC-M 42-01: 2 Modules

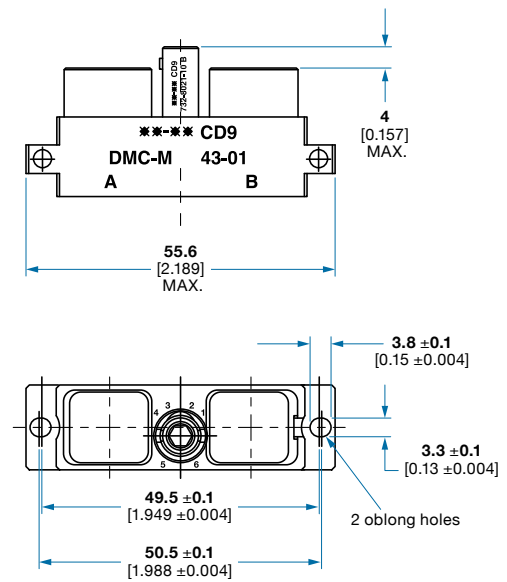


SHORT STACKABLE RECEPTACLES

DMC-M 83-01: 4 Modules



DMC-M 43-01: 2 Modules



Note: No accessory can be mounted on the rear of short receptacle shell.



RECEPTACLES

TE PART NUMBERING SYSTEM

DMC-MD 84 B 3 5 W 01 ****

CONNECTOR TYPE

- DMC-M Standard
- DMC-MD Shielded

HOUSING TYPE

- Two-Module Receptacle**
 - 42 Standard
 - 43 Short
 - 44 Flange Mount Standard
 - 45 Flange Mount Short
- Four-Module Receptacle**
 - 82 Standard
 - 83 Short
 - 84 Flange Mount Standard
 - 85 Flange Mount Short

SHELL DELIVERY CONFIGURATION (Optional)

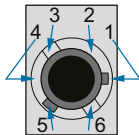
- Omit for Standard Keying Component Not Mounted
- A Without Keying Component
- B With Keying Component Coded, Mounted or Not Mounted

KEYING COMPONENT TYPE (Optional: B Configuration Only)

- 0 Type 0 (Black)
- 1 Type 1 (Purple)
- 2 Type 2 (Yellow)
- 3 Type 3 (Green)
- 4 Type 4 (Blue)
- 5 Type 5 (Orange)
- 6 Type 6 (White)

KEYING COMPONENT ORIENTATION IN THE RECEPTACLE (Optional)

- Omit - Not mounted
- 1, 2, 3, 4, 5, 6



Keying Component Orientation

Viewed from front face of receptacle housing
Largest keyway indicates orientation

PLATING/FINISH (Optional)

- Aluminum Alloy Shell**
 - Omit - Black Nickel
 - W Olive Drab Cadmium
- Composite Shell**
 - M Nickel (Shell Types 82 and 83 Only)
 - J Olive Drab Cadmium (Shell Types 82 and 83 Only)

ISSUE

01

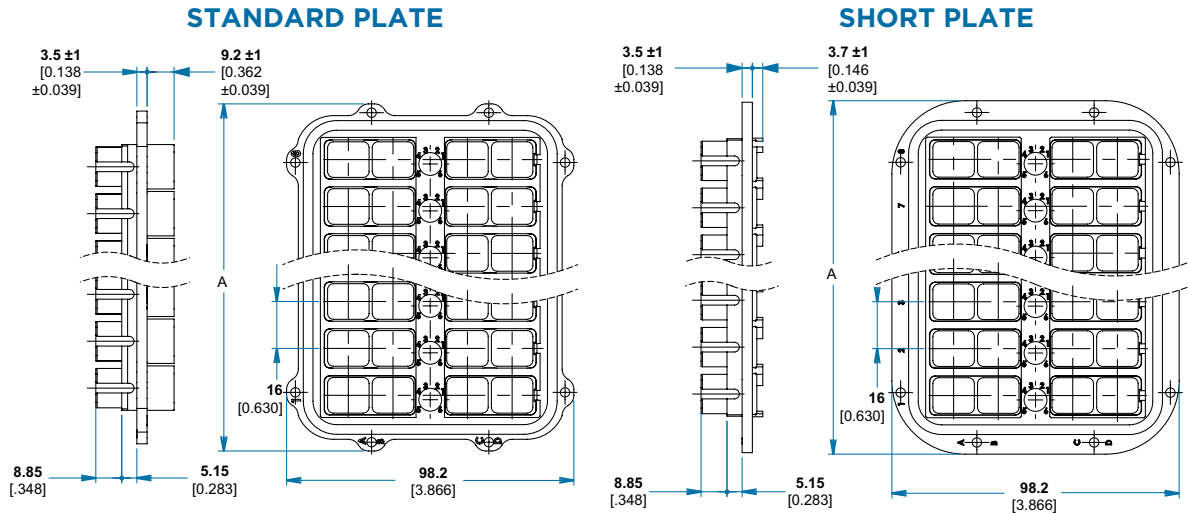
MODIFICATIONS (Optional)

- A1064 Bright Nickel Finish
- Consult TE for additional modifications



MULTI-RECEPTACLE PLATES

These multi-receptacle plates receive 4-module rack and panel plugs or free plugs. No accessory can be mounted on the rear of the lightweight multi-receptacle versions.



No. of Rows	13	12	10	8	6	4	3	2
Version	1044	0964	0804	0644	0484	0324	0244	0164
Dim A	232.2 (9.142)	216.2 (8.512)	184.2 (7.252)	152.2 (5.992)	120.2 (4.732)	68.6 (2.701)	52.6 (2.071)	36.6 (1.437)

Dimensions are mm (inches)

TE PART NUMBERING SYSTEM

DMC-MD 0484 A W 01 A

CONNECTOR TYPE

- DMC-M** Standard
- DMC-MD** Shielded (Includes Conductive Gasket)

SIZE/CAPACITY

- 1044** 52 modules (13 rows)
 - 0964** 48 modules (12 rows)
 - 0804** 40 modules (10 rows)
 - 0644** 32 modules (8 rows)
 - 0484** 24 modules (6 rows)
 - 0324** 16 modules (4 rows)
 - 0244** 12 modules (3 rows)
 - 0164** 8 modules (2 rows)
- Consult TE for other sizes

KEYING COMPONENT (Optional)

- Omit - With Keying Component
- A** Without Keying Component

PLATING/FINISH (Optional)

- Aluminum Alloy Shell**
- Omit - Black Nickel
- W** Olive Drab Cadmium

ISSUE

- 01**

TYPE (Optional)

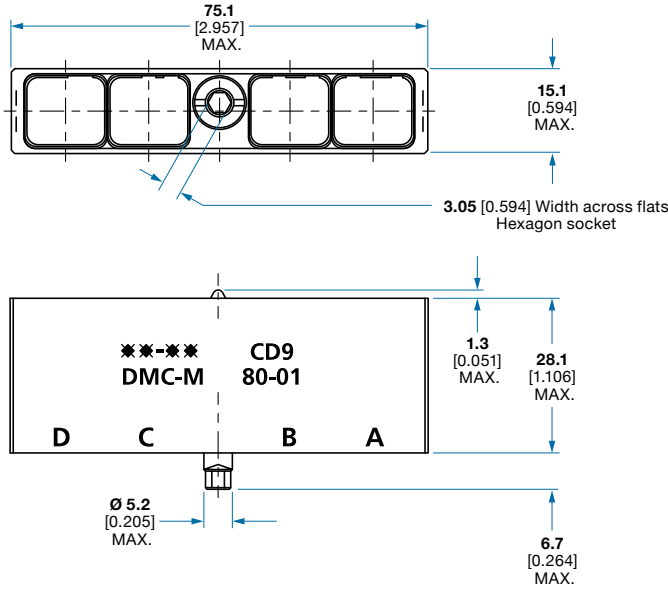
- Omit - Standard Plate
- A** Short Plate (No Backshell Mount)



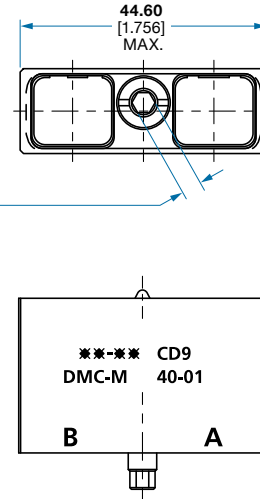
PLUGS

FREE PLUGS

DMC-M 80-01: 4 Modules



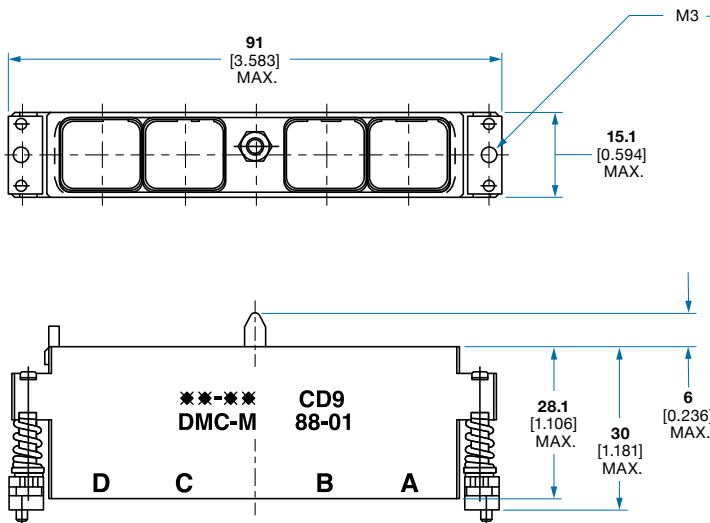
DMC-M 40-01: 2 Modules



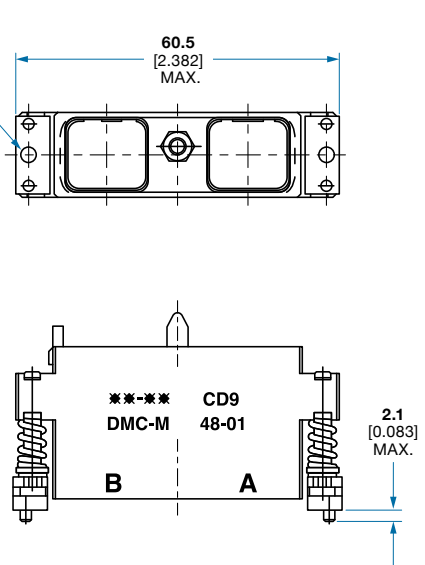
The receptacle/plug coupling is done with the tool 057-0592-80 or a standard Allen wrench (coupling torque 0.1 ± 0.03 daN.m [8.8 \pm 2.6 in. lbf.]).

RACK AND PANEL PLUGS

DMC-M 88-01: 4 Modules



DMC-M 48-01: 2 Modules



See page 40 for panel cutouts.



PLUGS

TE PART NUMBERING SYSTEM

DMC-MD 89 B 3 5 W 01 ****

CONNECTOR TYPE

- DMC-M** Standard
- DMC-MD** Shielded

HOUSING TYPE

- Two-Module Receptacle**
 - 40** Free Plug
 - 48** Rack and Panel Plug
 - 49** Reversed Rack and Panel Plug
- Four-Module Receptacle**
 - 80** Free Plug
 - 88** Rack and Panel Plug
 - 89** Reversed Rack and Panel Plug

SHELL DELIVERY CONFIGURATION (Optional)

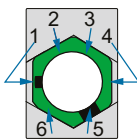
- Omit for Standard Keying Component Not Mounted
- A** Without Keying Component
- B** With Keying Component Coded, Mounted or Not Mounted

KEYING COMPONENT TYPE (Optional: B Configuration Only)

- 0** Type 0 (Black)
- 1** Type 1 (Purple)
- 2** Type 2 (Yellow)
- 3** Type 3 (Green)
- 4** Type 4 (Blue)
- 5** Type 5 (Orange)
- 6** Type 6 (White)

KEYING COMPONENT ORIENTATION IN THE RECEPTACLE (Optional)

- Omit - Not Mounted
- 1, 2, 3, 4, 5, 6**



Keying Component Orientation

Viewed from front face of plug housing
Largest keyway indicates orientation

PLATING/FINISH (Optional)

- Aluminum Alloy Shell**
 - Omit - Black Nickel
 - W** Olive Drab Cadmium
- Composite Shell**
 - M** Nickel (Shell Type 80 Only)
 - J** Olive Drab Cadmium (Shell Type 80 Only)

ISSUE

- 01**

MODIFICATIONS (Optional)

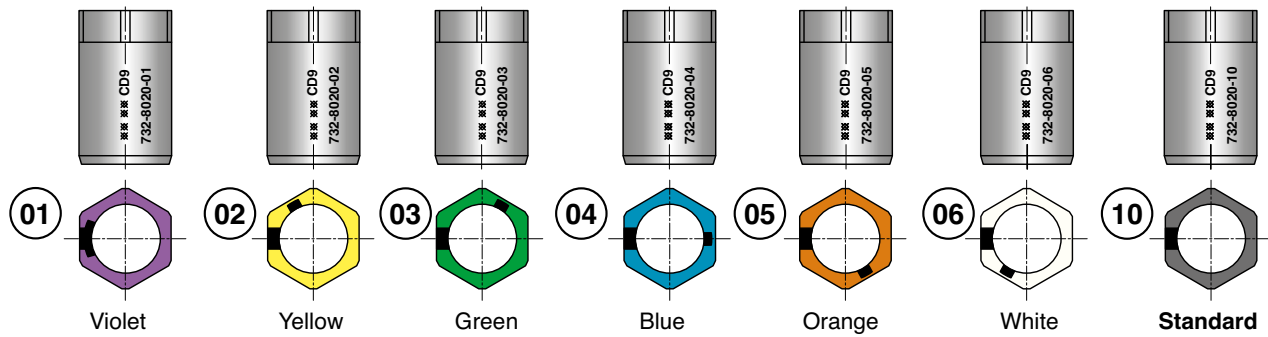
- A1064** Bright Nickel Finish
- Consult TE for additional modifications



PLUG KEYING

DMC-M plugs use an optional keying component to allow 6 mating possibilities. An additional 6 keying orientations are possible providing a total of 36 keying options thereby preventing connector misalignment and mismatching. Keying is especially useful for rack and multiconnector applications.

The assembly of these keys is toolless. Once clipped into their cavities, keys must be broken to be removed.




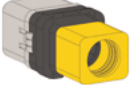


Type	01	02	03	04	05	06	10
TE	732-8020-01	732-8020-02	732-8020-03	732-8020-04	732-8020-05	732-8020-06	732-8020-10
EN4165	EN4165P01	EN4165P02	EN4165P03	EN4165P04	EN4165P05	EN4165P06	EN4165P10



MODULES

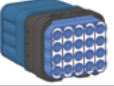
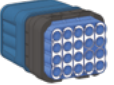
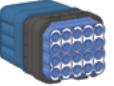
GROUNDING MODULES

Arrangement	Configuration	Pin Contacts	
		View	Part No.
08-16	8 Size 16 Contacts		DMC-M 08-16 AN-G EN4165A08G161NA
04-12	4 Size 12 Contacts		DMC-M 04-12 AN-G EN4165A04G121NA
01-08	1 Size 08 Contact		DMC-M 01-08 AN-G EN4165A02G081NA
			DMC-M 01-08 BN-G EN4165A02G081NB

BLANKING MODULES









Configuration	View	Part No.
Blanking Module		DMC-M 00-00 PN EN4165-1N

SHUNT MODULES



Arrangement	Configuration	View	Part No.
22-05	20 Contacts, Size 22 5 Shunts 4 Ways		DMC-M 22-05 BN EN4165A20Y221NB
22-07	20 Contacts, Size 22 3 Shunts 4 Ways 4 Shunts 2 Ways		DMC-M 22-07 BN EN4165A2AY221NB
22-10	20 Contacts, Size 22 10 Shunts 2 Ways		DMC-M 22-10 BN EN4165A2BY221NB

Distribution shunt modules use dedicated contacts based on standard AS39029. The shunt modules can only be mated with DMC-M 20-22 AN or DMC-MA 20-22 AN modules.

HIGH-SPEED ETHERNET MODULES

Arrangement	Configuration	Pin Contacts		Socket Contacts	
		View	Part No.	View	Part No.
16-02	6 Contacts, Size 16 2 Contacts, Size 22 8 Contacts, Size 24		2226454-1 DMC-M 16-02 AN		2226455-1 DMC-M 16-02 BN
99-02	8 Contacts, Size 22 3 Contacts, Size 20		DMC-M 99-02 AN		DMC-M 99-02 BN
99-03	8 Contacts, Size 20 8 Contacts, Size 24		DMC-M 99-03 AN		DMC-M 99-03 BN
99-04	6 Contacts, Size 20 2 Contacts, Size 22 8 Contacts, Size 24		DMC-M 99-04 AN		DMC-M 99-04 BN

QUADRAX MODULES

Arrangement	Configuration	Pin Contacts		Socket Contacts	
		View	Part No.	View	Part No.
01-09	1 Quadrax Contact		DMC-M 01-08 AN-GQ EN4165A01Q281NA		DMC-M 01-08 BN-GQ EN4165A01Q281NB

DEUTSCH Part Numbers (DMC-M)
BACI10BC Part Numbers
EN4165 Part Numbers



MODULES

TE PART NUMBERING SYSTEM

DMC-M 20-22 A N E

Standard Modules

CONNECTOR TYPE
DMC-M

ARRANGEMENT
See Pages 19 - 21

CONTACTS*

- P Standard Male Contact
- S Standard Female Contact
- A Without Male Contact
- B Without Female Contact
- C Male Contact, Enlarged Crimp Barrel
- D Female Contacts, Enlarged Crimp Barrel

POLARIZATION
N, A, B, C, D

SEALING (Optional)
Omit - Standard (No Sealing)
E Sealed

EN4165 PART NUMBERING SYSTEM

EN4165 A 20-22 2 N A

Standard Modules

CONNECTOR TYPE
EN4165

MODULE SERIES

- A Series 2
- B Series 3 (Consult TE)

ARRANGEMENT
See Pages 19 - 21

SEALING

- 1 Unsealed
- 2 Sealed

POLARIZATION
N, A, B, C, D

CONTACTS*

- F Standard Female Contact
- M Standard Male Contact
- A Without Male Contact
- B Without Female Contact
- C Male Contact, Enlarged Crimp Barrel
- D Female Contacts, Enlarged Crimp Barrel

*Standard contacts compliant with AS39029 and EN3155



MODULES

TE PART NUMBERING SYSTEM

DMC-M 01-08 B N - G W

Grounding Modules

CONNECTOR TYPE
DMC-M

MODULE TYPE
01-08
04-12
08-16

CONTACTS
P Standard Male Contact
S Standard Female Contact
A Without Male Contact
B Without Female Contact

POLARIZATION
N, A, B, C, D

GROUNDING
G

PLATING/FINISH (Optional)
Aluminum Alloy
Omit - Black Nickel
W Olive Drab Cadmium

EN4165 PART NUMBERING SYSTEM

EN4165 A 01G08 2 N B

Grounding Modules

CONNECTOR TYPE
EN4165

MODULE SERIES
A Series 2
B Series 3 (Consult TE)

ARRANGEMENT
01G08
04G12
08G16

SEALING
1 Unsealed
2 Sealed

POLARIZATION
N, A, B, C, D

CONTACTS
F Standard Female Contact
M Standard Male Contact
A Without Male Contact
B Without Female Contact
C Male Contact, Enlarged Crimp Barrel
D Female Contacts, Enlarged Crimp Barrel



MODULES

TE PART NUMBERING SYSTEM

Shunt Modules

CONNECTOR TYPE
DMC-M

ARRANGEMENTS

- 22-05 5 Shunts 4 Ways
- 22-07 3 Shunts 4 Ways and 4 Shunts 2 Ways
- 22-10 10 Shunts 2 Ways

CONTACT TYPE

- S Female Contact
- B Without Female Contact

POLARIZATION

- N, A, B, C, D

DMC-M 22-05 B N

EN4165 PART NUMBERING SYSTEM

Shunt Modules

FAMILY
EN4165

MODULE SERIES

- A Series 2
- B Series 3 (Consult TE)

ARRANGEMENTS

- 20Y22 5 Shunts 4 Ways
- 2AY22 3 Shunts 4 Ways and 4 Shunts 2 Ways
- 2BY22 10 Shunts 2 Ways

SEALING

- 1 Unsealed

POLARIZATION

- N, A, B, C, D

CONTACT TYPE

- B Without Female Contact
- F With Female Contact

EN4165 A 20Y22 1 N B



ACCESSORIES

EN PART NUMBERING SYSTEM

EN4165 **F** **14** **P** **4**

FAMILY

EN4165

PLATING/FINISH

Aluminum Alloy Body

F Black Nickel

W Olive Drab Cadmium

Composite Body

M Nickel (For Shell Types P4 and R4 Only)

J Olive Drab Cadmium (For Shell Types P4 and R4 Only)

BODY

14 Shielded Accessory Body

TYPE (Used With)

P Free Plug

R Receptacle and Rack and Panel Plug

SHELL

2 2 Modules

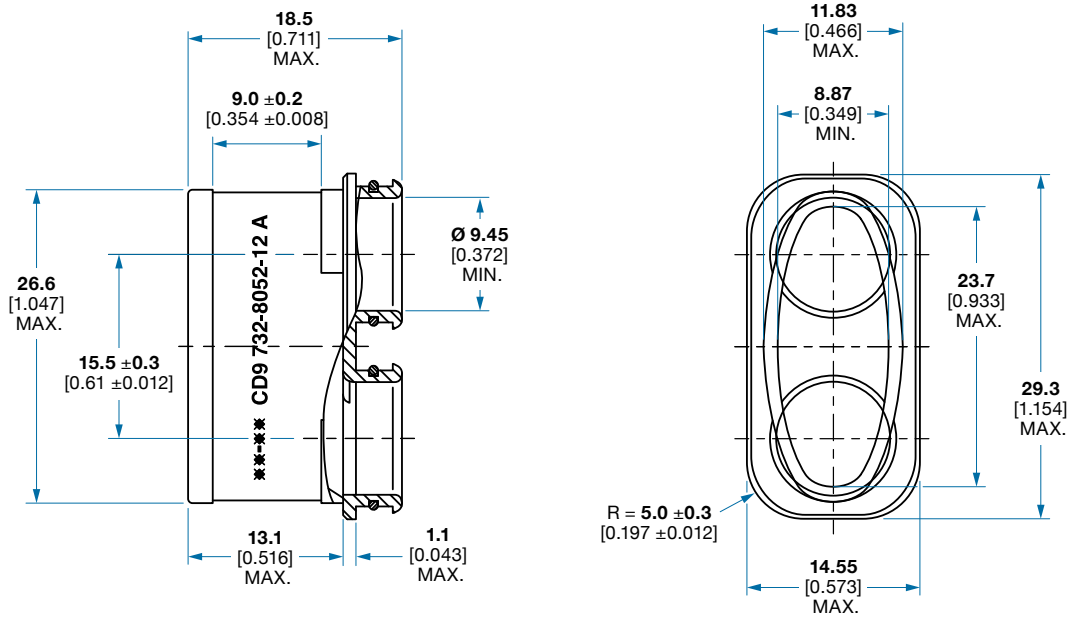
4 4 Modules



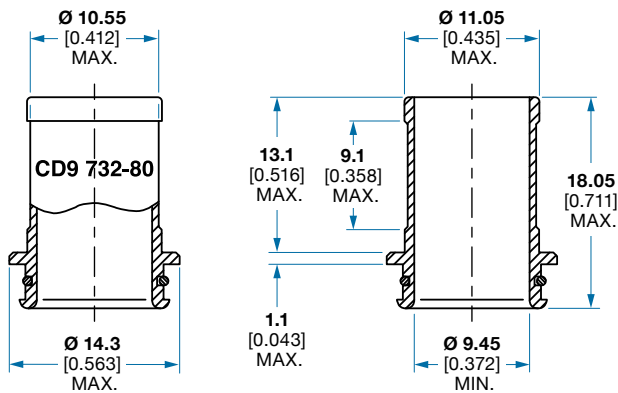
ACCESSORIES

CHIMNEYS FOR SHIELDED ACCESSORIES

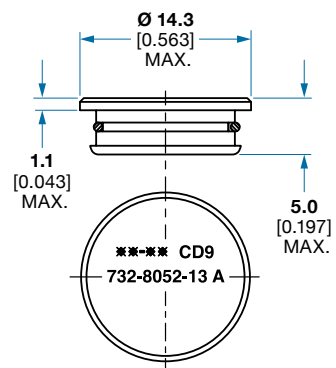
732-8052-12 A: Double Oval Chimney (1 for 2 cavities, for 4-module accessories only)



732-8052-11 A:
Round Chimney (1 per cavity)



732-8052-13 A:
Blank Chimney (1 per cavity)





MASSES

Receptacles

Type	Nickel Finish		Olive Drab Cadmium Finish		Mass, Max. (g)	Page
	TE Part No.	EN Part No.	TE Part No.	EN Part No.		
2-Module Receptacles						
Standard	DMC-M 42 A 01	EN4165FOA200	DMC-M 42 AW 01	EN4165WOA200	17	8
Short	DMC-M 43 A 01	—	DMC-M 43 AW 01	—	15	8
Flange Mount	DMC-M 44 A 01	EN4165F7A200	DMC-M 44 AW 01	EN4165W7A200	22	9
Short, Flange Mount	DMC-M 45 A 01	—	DMC-M 45 AW 01	—	21	9
4-Module Receptacles						
Standard (Aluminum)	DMC-M 82 A 01	EN4165FOA400	DMC-M 82 AW 01	EN4165WOA400	22	8
Standard (Composite)	DMC-MD 82 AM 01	EN4165MOA400	DMC-MD 82 AJ 01	EN4165JOA400	15	8
Short (Aluminum)	DMC-M 83 A 01	—	DMC-M 83 AW 01	—	20	8
Short (Composite)	DMC-MD 83 AM 01	—	DMC-MD 83 AJ 01	—	14	8
Flange Mount	DMC-M 84 A 01	EN4165F7A400	DMC-M 84 AW 01	EN4165W7A400	28	9
Short, Flange Mount	DMC-M 85 A 01	—	DMC-M 85 AW 01	—	27	9

Multi-Receptacle Housings

Size (No. of Modules)	Type	TE Part No.	Mass (g)	Page
8	Standard	DMC-M 0164-01	98	12
	Lightweight	DMC-M 0164-01 A	55	12
12	Standard	DMC-M 0244-01	127	12
	Lightweight	DMC-M 0244-01 A	75	12
16	Standard	DMC-M 0324-01	156	12
	Lightweight	DMC-M 0324-01 A	95	12
24	Standard	DMC-M 0484-01	214	12
	Lightweight	DMC-M 0484-01 A	131	12
32	Standard	DMC-M 0644-01	273	12
	Lightweight	DMC-M 0644-01 A	171	12
40	Standard	DMC-M 0804-01	331	12
	Lightweight	DMC-M 0804-01 A	211	12
48	Standard	DMC-M 0964-01	390	12
	Lightweight	DMC-M 0964-01 A	251	12
52	Standard	DMC-M 1044-01	419	12
	Lightweight	DMC-M 1044-01 A	271	12

Receptacle Keying Component

Type	TE Part No.	EN Part No.	Mass, Max. (g)	Page
Keying	732-8021-** B	EN4165R**	2.5	13

Plugs

Type	Nickel Finish		Olive Drab Cadmium Finish		Mass, Max. (g)	Page
	TE Part No.	EN Part No.	TE Part No.	EN Part No.		
2-Module Plugs						
Free Hanging (Aluminum)	DMC-M 40 A 01	EN4165F6A200	DMC-M 40 AW 01	EN4165W6A200	22	14
Rack and Panel	DMC-M 48 A 01	EN4165F9A200	DMC-M 48 AW 01	EN4165W9A200	33	14
Reversed Rack and Panel	DMC-M 49 A 01	EN4165F9A2R00	DMC-M 49 AW 01	EN4165W9A2R00	33	15
4-Module Plugs						
Type	Nickel Finish		Olive Drab Cadmium Finish		Mass, Max. (g)	Page
Free Hanging (Aluminum)	DMC-M 80 A 01	EN4165F6A400	DMC-M 80 AW 01	EN4165W6A400	22	14
Free Hanging (Composite)	DMC-MD 80 AM	EN4165M6A400	DMC-MD 80 AJ	EN4165J6A400	19	14
Rack and Panel	DMC-M 88 A 01	EN4165F9A400	DMC-M 88 AW 01	EN4165W9A400	38	14
Reversed Rack and Panel	DMC-M 89 A 01	EN4165F9A4R00	DMC-M 89 AW 01	EN4165W9A4R00	38	15



MASSES

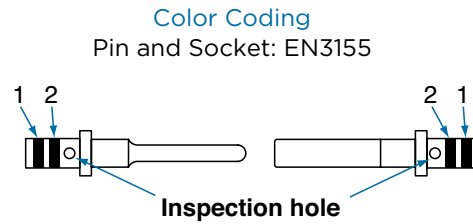
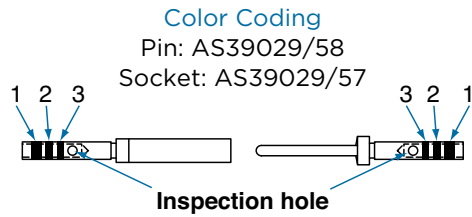
Modules (continued)

Insert	Contact Type	TE Part No.	EN Part No.	Mass, Max. (g)	Page
Quadrax Modules					
01-08 (Ni)	Male	DMC-M 01-08 A*-GQ	EN4165A01Q281*A	3.5	20
	Female	DMC-M 01-08 B*-GQ	EN4165A01Q281*B	7.4	20
01-08 (Cd)	Male	DMC-M 01-08 A*-GQW	—	3.5	20
	Female	DMC-M 01-08 B*-GQW	—	7.4	20
Shunt Modules					
20-22 (5 Shunts 4 Ways)	Female	DMC-M 22-05 B*	EN4165A20Y221*B	3.8	20
20-22 (3 Shunts 4 Ways and 4 Shunts 2 Ways)	Female	DMC-M 22-07 B*	EN4165A2AY221*B	3.7	20
20-22 (10 Shunts 2 Ways)	Female	DMC-M 22-10 B*	EN4165A2BY221*B	3.7	20
High-Speed Modules					
99-02	Male	DMC-M 99-02 A*	—	3.6	20
	Female	DMC-M 99-02 B*	—	4.4	20
99-03	Male	DMC-M 99-03 A*	—	2.5	20
	Female	DMC-M 99-03 B*	—	3.35	20
99-04	Male	DMC-M 99-04 A*	—	2.9	20
	Female	DMC-M 99-04 B*	—	3.4	20
16-02	Male	2226454-1 / DMC-M 16-02 A*	—	2.5	20
	Female	2226455-1 / DMC-M 16-02 B*	—	3.4	20
Optical and Hybrid Modules					
MC5	Male	458235	—	5.5	21
	Female	458238	—	8.9	21
T47 Hybrid	Male	459736-x	—	4.3	21
	Female	459739-x	—	5.3	21
MC6	Hermaphroditic	DMC-M01-MC6N	—	12.5	21



CONTACTS

ELECTRICAL CONTACTS



Size	Part No.	Type	Color Bands		Wire Range	
			AS39029	EN3155	AWG	mm ²
24/24	724-0001-24	Pin	—	—	26-24	0.15 - 0.25
	724-0003-24	Socket	—	—		
23/22	182-4043-23	Pin	—	Green-Purple	26-22	0.15 - 0.4
	182-4042-23	Socket	—	Green-Purple		
22/22	724-0001-22	Pin	Orange-Blue-Black	Green-Green	26-22	0.15 - 0.40
	724-0003-22	Socket	Orange-Green-Yellow			
22/20	182-0860-22	Pin	—	Red-Green	24-20	0.25 - 0.60
	182-0862-22	Socket	—			
20/20	724-0001-20	Pin	Orange-Blue-Orange	Red-Red	24-20	0.25 - 0.60
	724-0003-20	Socket	Orange-Green-Purple			
20/18	724-1063-20	Pin	—	Brown-Red	24-18	0.25 - 1.00
	724-1064-20	Socket	—			
16/16	724-0001-16	Pin	Orange-Blue-Yellow	Blue-Blue	20-16	0.60 - 1.20
	724-0003-16	Socket	Orange-Green-Gray			
16/14	724-1063-16	Pin	—	White-Blue	20-14	0.60 - 2.00
	724-1064-16	Socket	—			
12/12	724-0001-12	Pin	Orange-Blue-Green	Yellow-Yellow	14-12	2.00 - 3.00
	724-0003-12	Socket	Orange-Green-White			
12/10	724-1063-12	Pin	—	White-Yellow	12-10	3.00 - 5.00
	724-1064-12	Socket	—			
08 (Power)	724-0001-08	Pin	—	—	08	5.30 - 8.98
	724-0003-08	Socket	—			
08 (Power)	182-0001-08	Pin	—	—	08	
	182-0003-08	Socket	—			
Microcoax	724-0004-16	Pin	Yellow-Red-Yellow	—	KX 22	0.057 - 0.158
	724-0005-16	Socket	Yellow-Orange-Red			
08 (Coax)	182-0125-08	Pin	—	—	ALPEN A 26 DT	
	182-0126-08	Socket	—			
08	182-0048-08	Pin	—	—	SMA Interface	
	182-0044-08	Socket	—			
22 (Shunt)	724-1272-22	Socket	—	—	26-22	0.15 - 0.40

Bold part numbers are standard contacts delivered with modules.

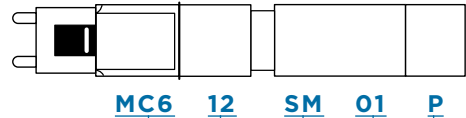
Databus Contacts (Twisted Pair) As Per AS39029

Cable Type	Part No.	Type	Color Bands	Conductor Size, Max.	Braid OD, Max.
Single Braid	182-0034-03	Pin	Brown-Red	2 x 0.34 mm ²	3.48
	182-0035-03	Skt			
Double Braid	182-0034-04	Pin	Red-Red	2 x 0.34 mm ²	3.91
	Olive Drab Cadmium	Skt			



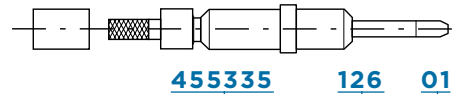
FIBER OPTIC TERMINI

MC6 Termini



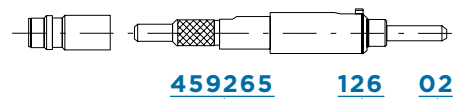
- FAMILY** ————— MC6
- NUMBER OF FIBERS** ————— 12
- FIBER TYPE** ————— SM Single Mode
MM Multimode
- CABLE TYPE** ————— 01 Ruggedized Oval Aerospace Multifiber Cable, 3.95 mm x 1.60 mm max. Jacket
02 Round Multifiber Cable, Ø 3.96 mm max. Jacket
- FERRULE TYPE** ————— P Male, with Alignment Pins
S Female, without Alignment Pins

MC5 Termini



- FAMILY** ————— 455335 MC5
- OPTICAL HOLE DIAMETER** ————— 126 126 µm
127 127 µm
- CABLE TYPE** ————— 00 900 µm buffered fiber
01 2.1 mm cable OD
02 1.8 mm cable OD
03 2.5 mm cable OD
04 2.4 mm cable OD
05 1.2 mm cable OD

ARINC 801 Termini for T47 Modules



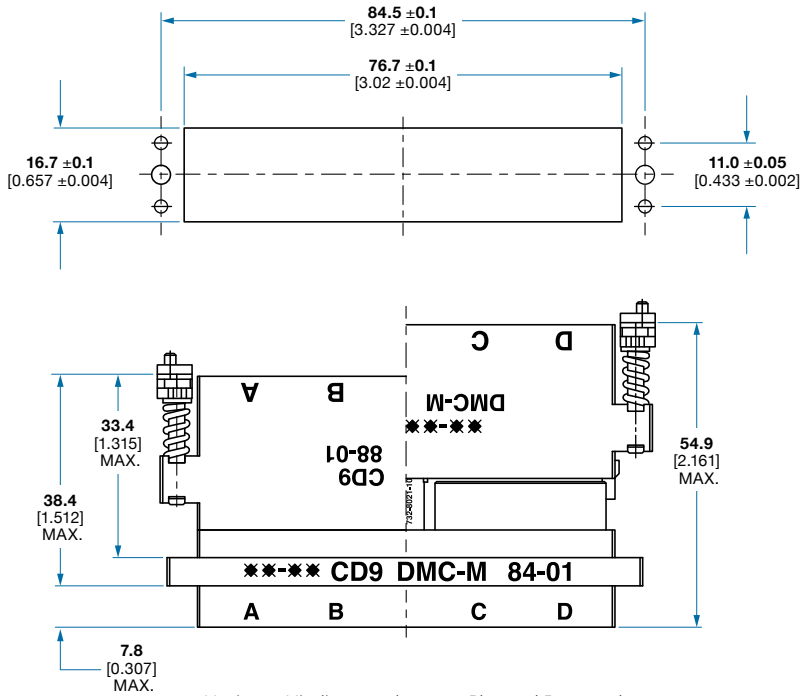
- FAMILY** ————— 459265 ARINC 801
- OPTICAL HOLE DIAMETER** ————— 126 126 µm
- CABLE TYPE** ————— 00 900 µm buffered fiber
02 1.8 mm cable OD



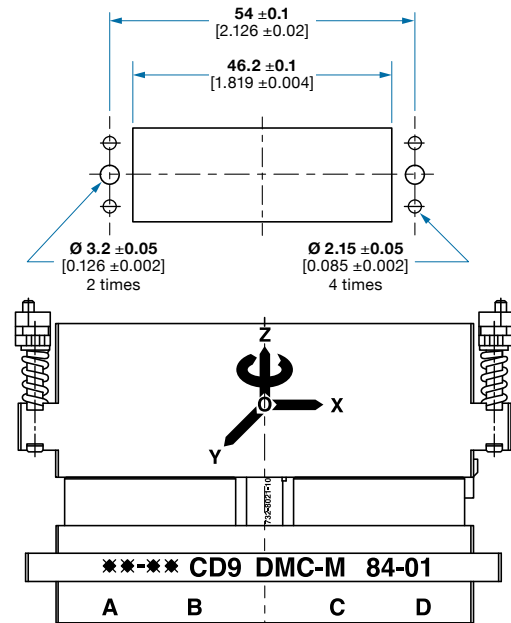
PANEL CUTOUTS

Panel Cutouts for Rack and Panel Plugs

TYPES 88, 89



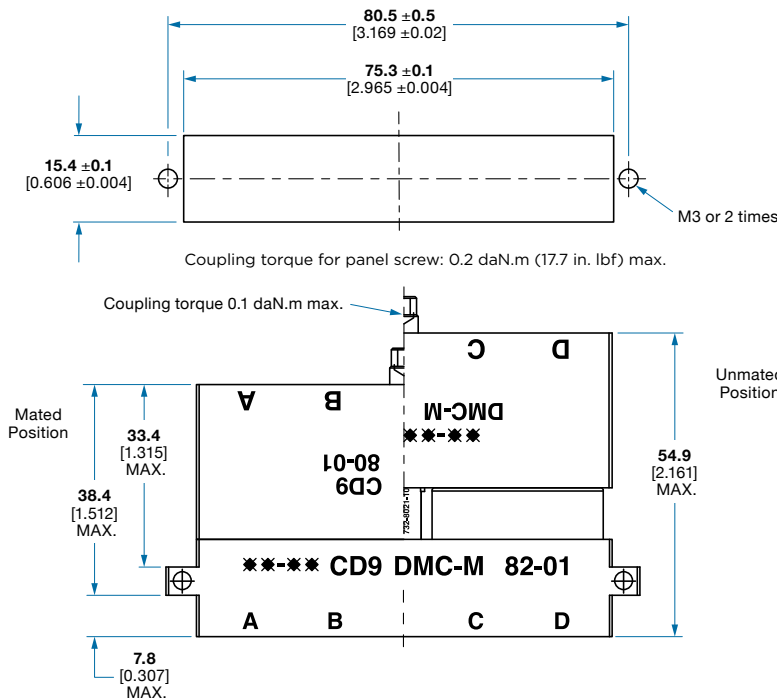
TYPES 48, 49



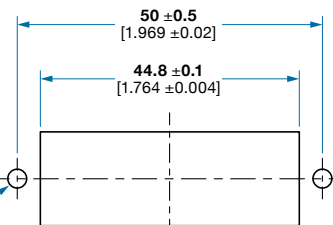
Maximum Misalignment between Plug and Receptacle
 OZ: ±2 mm (±0.79 in.) OY: ±0.75 mm (±0.030 in.) OX: ±0.75 mm (±0.030 in.) ∅: ±1°

Panel Cutouts for Receptacles

TYPES 82, 83, 84, 85



TYPES 42, 43, 44, 45





USER MANUAL

Contact Crimping



Use a crimping tool with the appropriate pilot stop.



Strip the insulation from the copper wire, with 5 mm maximum strip length. (For aluminum wire, consult TE.)



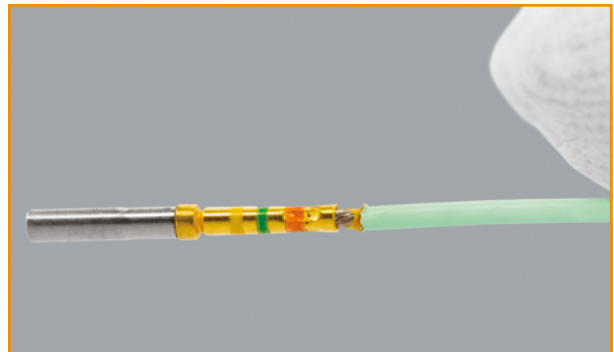
Insert the contact into the crimping tool.



Insert the wire into the contact.



Tighten the crimping tool fully. The handles will not release until the tool is fully bottomed.



Remove and inspect the completed termination. The contact must have 8 markings, and the wire must be seen in the contact side hole.

For the use of a shielded version, do not forget to slide the cables in the chimney before crimping the contacts.



USER MANUAL

Module Insertion and Extraction

MODULE INSERTION

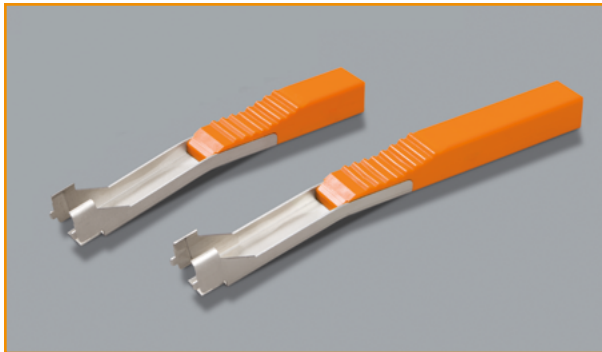


The module must be inserted from the rear side of the housing. The module polarization key must be visible from the marked side of the housing.



Manually push the module into the cavity until the module's rear should butt against the shell. For sealed modules, use the insertion tool part number 057-0699-00 A or B. Check that the module is properly seated either by pulling back the wires or by pushing the module from the front of the housing.

MODULE EXTRACTION



For extraction use the tool part number 057-0289-00 A or B.



Slide the tool around the cable. Then push the tool inside the cavity until the tool butts against the shell.



Note the tool's different orientation depending on the A, B, C or D cavities.

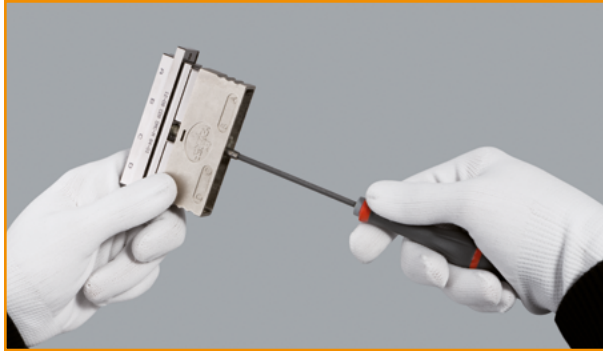


Press the cable between the tool and the fingers and pull back. If the module is not wired, use the same tool, but push the module from the front of the housing.



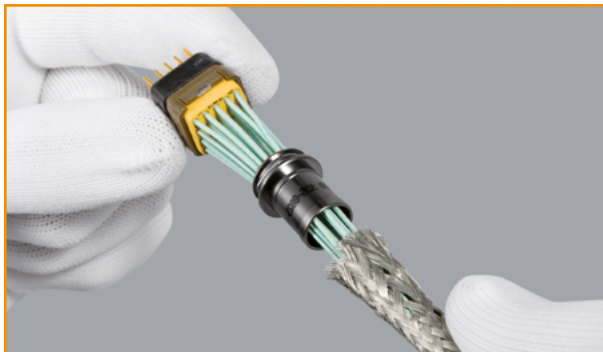
USER MANUAL

Free Plug/Receptacle Coupling



Use the tool part number 057-0592-80 or a standard allen key and apply a 0.1 ± 0.03 daN.m (8.8 ± 2.6 in. lbf.) coupling torque.

Mounting Shielded Braid on Chimney



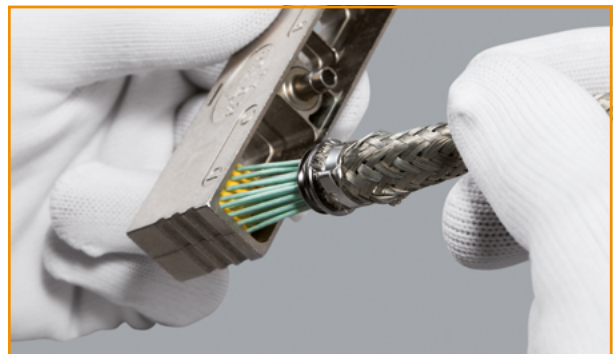
Slide the chimney and the shielded braid around the cable.



Slide the shielded braid and the 3 mm band strap ring over the chimney.



Use the tool 05 7-0450-00 to tighten the ring around the shielded braid over the chimney.



Insert the module in the housing.

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