

Single Module EN4165



ARINC 809 - BACC 65
EN4165

The New Standard Connector for Aircraft equipment and cabin systems.

Advantages

Light weight composite, modularity, color coded, push pull coupling are the key features of this connector

Standard

ARINC 809, BACC 65, EN4165 qualified

Markets & Programs

Cabin and avionic systems

Technical characteristics

Housing : Composite
 Plating : Nickel
 Inserts : Thermoplastic and FSR
 Vibrations : 20 g
 Durability : 500 mating cycles
 Salt spray : 500 hours
 Contacts : Copper alloy with gold on nickel plating
 Interfacial sealing : 12. 10² bar

Electrical characteristics

Temperature range : -55° C to + 175° C
 Insulation resistance : ≥ 5000 MΩ
 Maximum current : Size 22 : 5 A
 Size 20 : 7,5 A
 Size 16 : 13 A
 Size 12 : 23 A
 Size 8 : 46 A

EMI shielding performance

MHz frequency	100	200	300	400	800	1000
Attenuation (dB)	90	88	88	87	85	85

Weight

Extender Receptacle	Short Receptacle	Plug	Backshell
7 g	6 g	9 g	4 - 6g
0,015 lbs	0,013 lbs	0,020 lbs	0,009 - 0,013 lbs



DEUTSCH

The DMC-M is a modular rectangular connector which was designed and developed by Deutsch in the 80's. It has since set the modular connector standard in the Aerospace industry. It is now standardised by European Specification EN4165.

■ The modularity

The DMC-M is an answer to all kind of needs thanks to its wide range of contacts arrangements : from contacts size 22 to size 8, but also coaxial, quadrx or optical contacts.

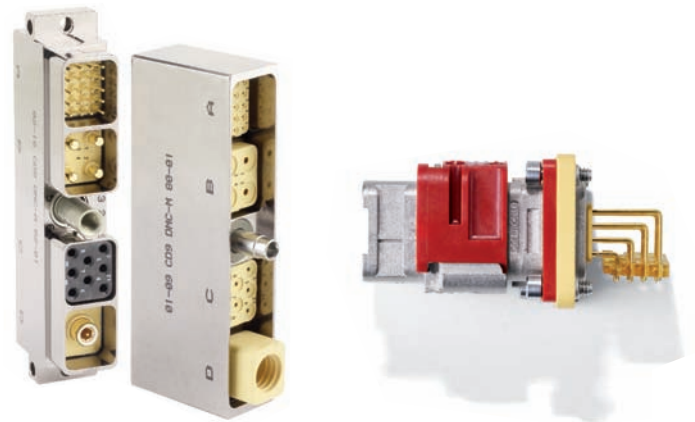
Each mated half of the DMC-M connector can contain both male and female configurations which allow you to mix input and output with signal and power supply. You can easily modify your system by simply removing modules from the shells and replace them with new items. This makes DMC-M perfect for both new designs and retrofit applications



■ The safety

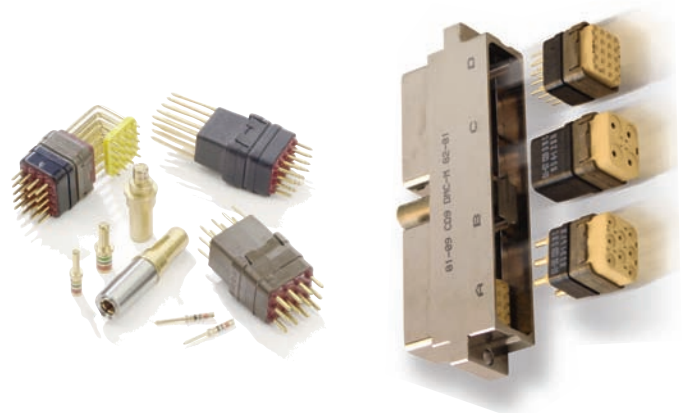
The DMC-M provides a large number of insert layout possibilities. It allows different keying possibilities between plugs and receptacles.

DMC-M provides a real EMI protection following most stringent Aerospace and Military specifications.



■ The reliability

To increase the level of reliability of the cabin interconnections, the Single Module DMC-M is compliant with the most demanding avionic specifications, in terms of sealing, vibrations or mechanical endurance...

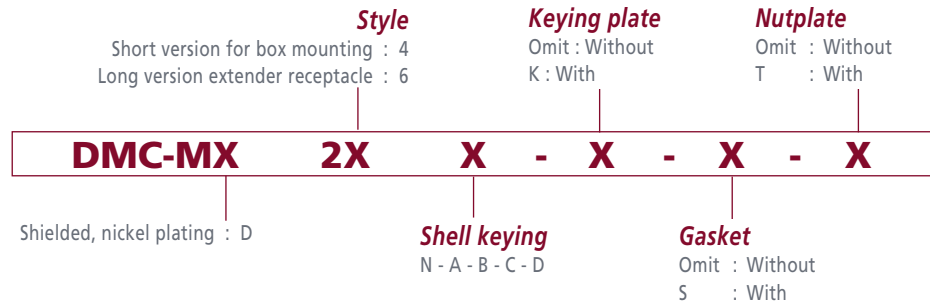


■ The weight optimization

Weight saving being a high concern, the Single Module DMC-M has been designed in composite with a metalized plating.



Receptacle



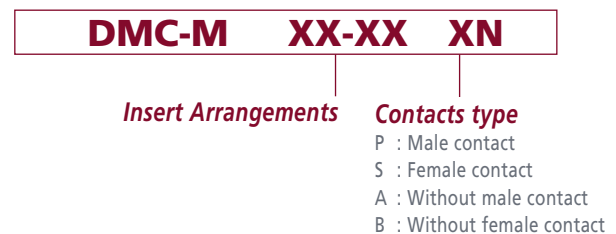
Plug



Single Module backshell



Inserts



For more information on inserts, contact termination and arrangements, see DMC-M catalogue.

Single Module DMC-M

Backshell

STRAIGHT CHIMNEY
787-8055-10M
787-8055-10M



45° ORIENTABLE CHIMNEY
787-8055-20M
787-8055-20M



90° ORIENTABLE CHIMNEY
787-8055-30M
787-8055-30M



STRAIGHT CLAMPSHELL
787-8055-11M
787-8055-11M

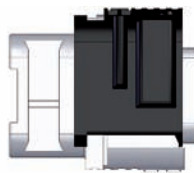


TIE RAP OPTION
787-8055-12M
787-8055-12M

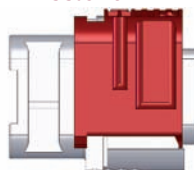


Plug

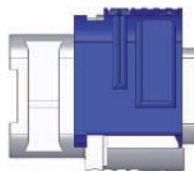
DMC-MD20N
BACC65BUMN



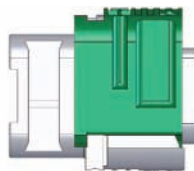
DMC-MD20A
BACC65BUMA



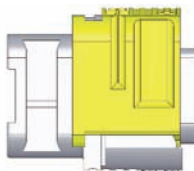
DMC-MD20B
BACC65BUMB



DMC-MD20C
BACC65BUMC



DMC-MD20D
BACC65BUMD



Accessories



PLUG
SHIPPING CAP
104-0236-00



RECEPTACLE AND EXTENDER
SHIPPING CAP
104-0235-00



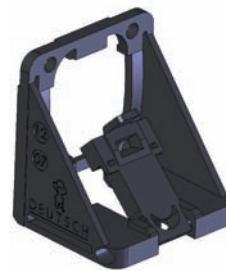
PLUG
FLIGHT CAP
787-8010-00



RECEPTACLE AND EXTENDER DUST CAP
WITH LANYARD 787-8011-00
WITHOUT LANYARD 787-8009-00



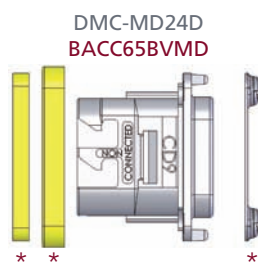
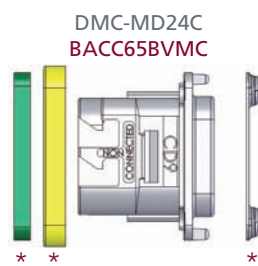
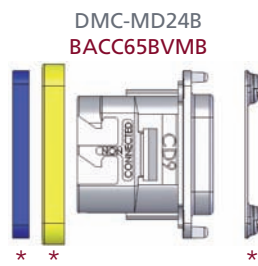
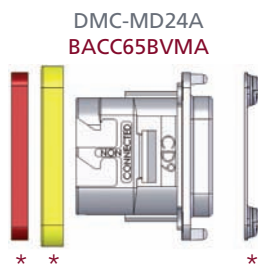
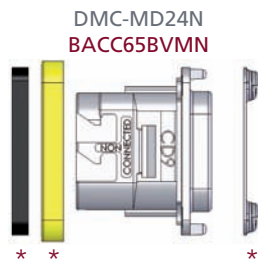
PLUG FLIGHT CAP
WITH LANYARD 787-8017-00
WITHOUT LANYARD 787-8016-00



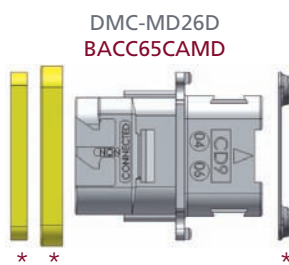
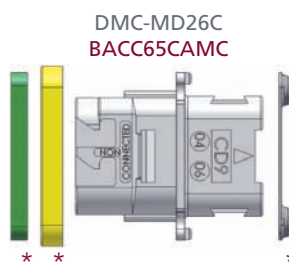
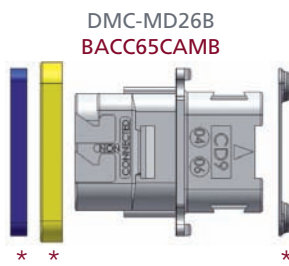
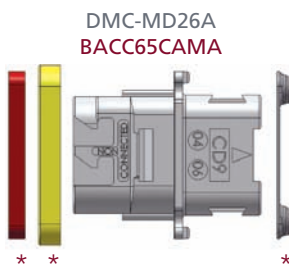
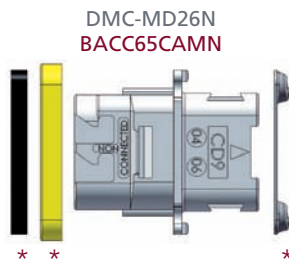
MOUNTING BRACKET
FOR EXTENDER
787-8014-00

Single Module DMC-M

Receptacle



Extender receptacle



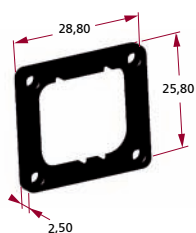
Panel cutout



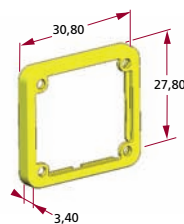
* : To be ordered separately (see part numbering system)

Optionnal parts for receptacle

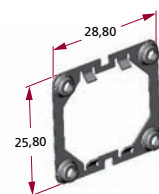
● Keying plate



● Sealing gasket



● Nut plate



Single Module DMC-M

Backshell

STRAIGHT CHIMNEY
787-8055-10M
787-8055-10M



45° ORIENTABLE CHIMNEY
787-8055-20M
787-8055-20M



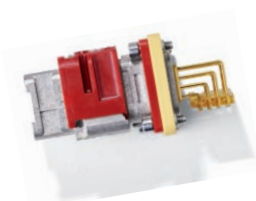
90° ORIENTABLE CHIMNEY
787-8055-30M
787-8055-30M



STRAIGHT CLAMPSHELL
787-8055-11M
787-8055-11M



TIE RAP OPTION
787-8055-12M
787-8055-12M



For PCB contacts or other layouts, please contact factory.

Inserts arrangements

Male contact as per MIL C 39029/58-***
Female contact as per MIL C 39029/57-***
To be ordered separately

• Male

• Female

DMC-M 20-22 AN
BAC10BC2022PN

DMC-M 20-22 BN
BAC10BC2022SN



20 contacts size 22

DMC-M 12-20 AN
BAC10BC1220PN

DMC-M 12-20 BN
BAC10BC1220SN



12 contacts size 20

DMC-M 08-16 AN
BAC10BC0816PN

DMC-M 08-16 BN
BAC10BC0816SN



8 contacts size 16

DMC-M 04-12 AN

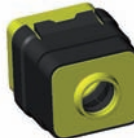
DMC-M 04-12 BN



4 contacts size 12

DMC-M 01-08 AN

DMC-M 01-08 BN



1 contacts size 08

DMC-M 99-01 AN
BAC10BC1622PN

DMC-M 99-01 BN
BAC10BC1622SN



6 contacts size 16
+
5 contacts size 22

DMC-M 99-02 AN

DMC-M 99-02 BN



HIGH SPEED
3 contacts size 20
+
8 contacts size 22

4 OPTICAL CONTACTS
ARINC 801

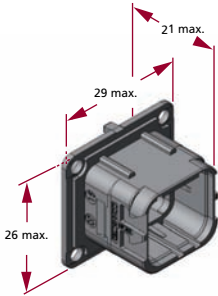
DMC-M 00-00 AN



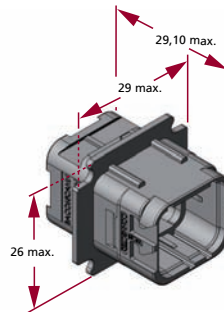
BLANKING MODULE

Receptacles & Plug

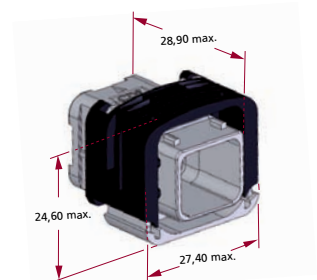
Receptacle



Extender receptacle

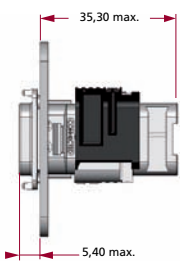


Plug

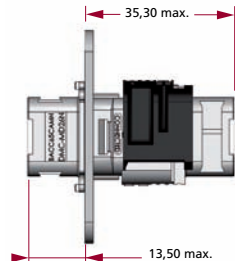


Mounting panel details

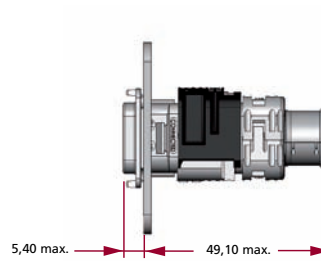
Box mounting receptacle



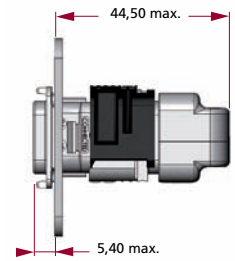
Extender receptacle



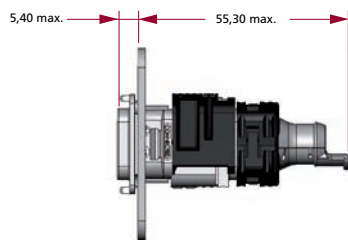
Straight chimney



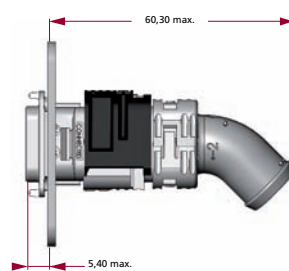
Straight clampshell



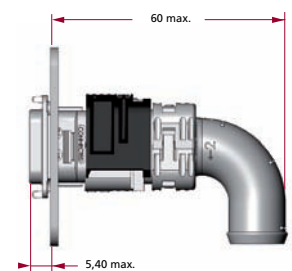
Tie rap option



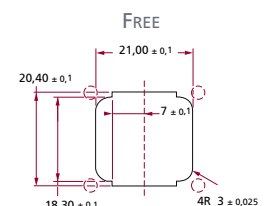
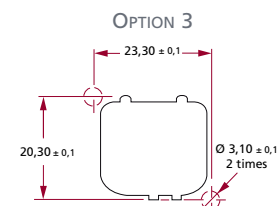
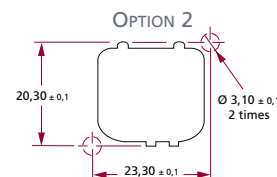
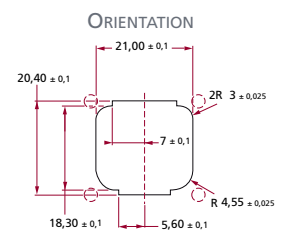
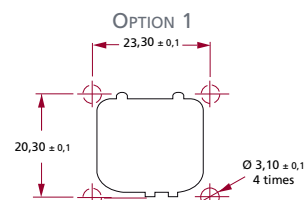
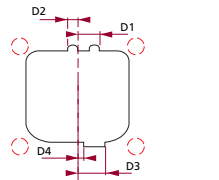
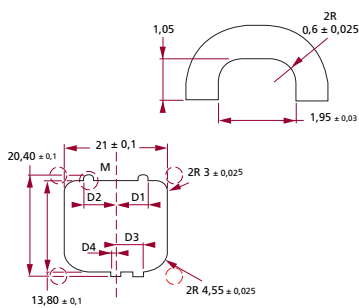
45° orientable chimney



90° orientable chimney



Panel cutout details



POL	D1	D2	D3	D4
N	6,52	6,52	5,40	0,95
A	4,28	4,28	0,95	5,40
B	6,52	4,28	3,16	3,16
C	2,04	6,52	3,16	5,40

POL	D1	D2	D3	D4
D	4,28	2,04	5,40	1,21

Nota : Tolerancing on dimensions D1, D2, D3, D4 : ± 0,05. Dimensions are in millimeters. Each hole Ø 3,1 mm must receive a screw.



DEUTSCH

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Connecteurs Electriques Deutsch

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Fax : +33 (0)2 32 23 58 00 - E-mail : ced@deutsch.net - www.deutsch.net