



DEUTSCH

BRANCHE CONNECTEURS AEROMILITAIRES



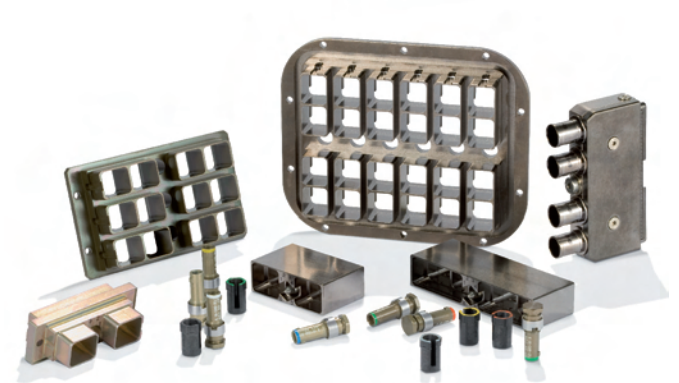
Single Module EN 4165

Arinc 809 - BACC65 - EN4165

The DMC-M is a modular rectangular connector which was designed and developed by Deutsch in the 1980's. It has since set the modular connector standard in the Aerospace & Military industries, and is now standardised by European Specification EN4165.

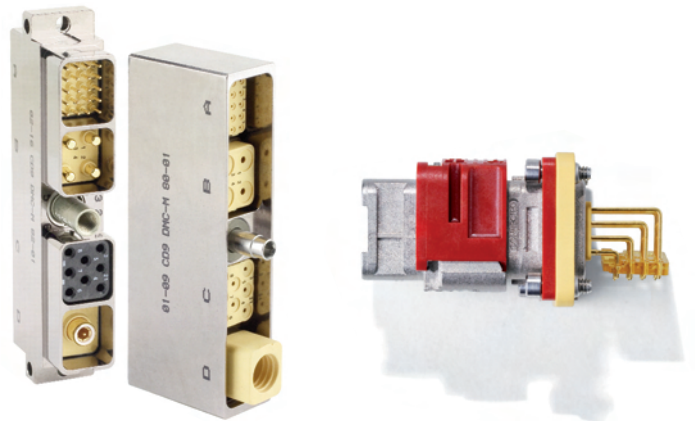
■ The modularity

The DMC-M is designed to address a wide range of requirements due to its wide range of contacts arrangements : from contacts size 22 to size 8, but also coaxial, quadrax 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 a new layout. This makes the DMC-M perfect for both new designs and retrofit applications.



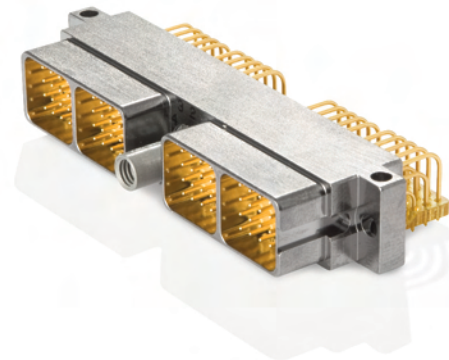
■ The safety

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 in accordance with EN 4165.



■ The weight optimization

Weight saving is commonly a high concern, the Single Module DMC-M has been designed in composite with a metallized plating for weight and mass saving.





ARINC809 - BACC65 - EN4165

The New Standard Connector for Aircraft equipment and cabin systems.

Advantages

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

Standard

ARINC809, BACC65, EN4165 qualified

Markets & Application

Cabin and avionic systems
Military - Railway

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 : 1,1.10⁻² 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

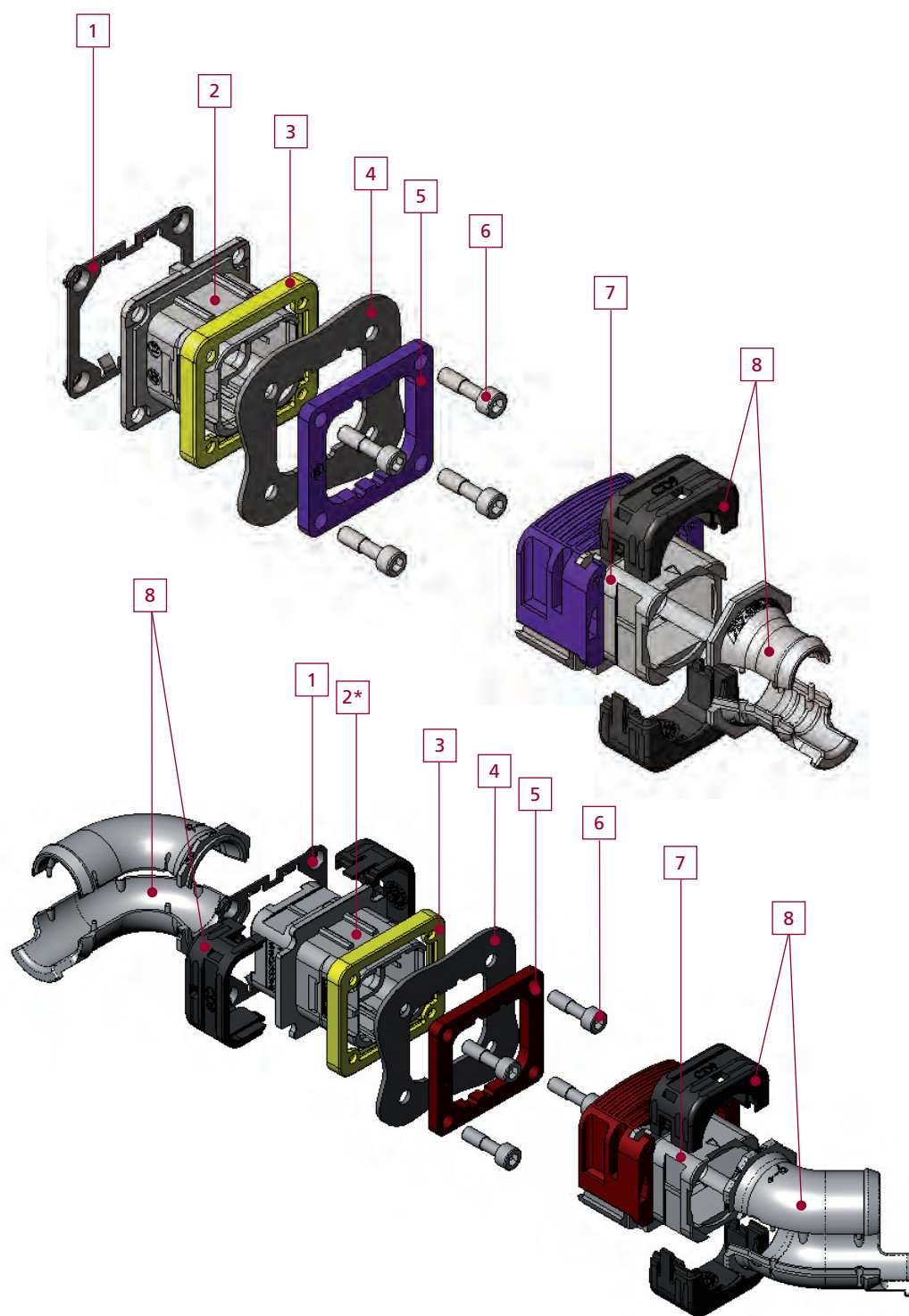
MHz frequency	100	200	300	400	800	1000
Attenuation (dB)	90	88	88	87	85	85

Weight

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

Recommended mounting for receptacle screw torque

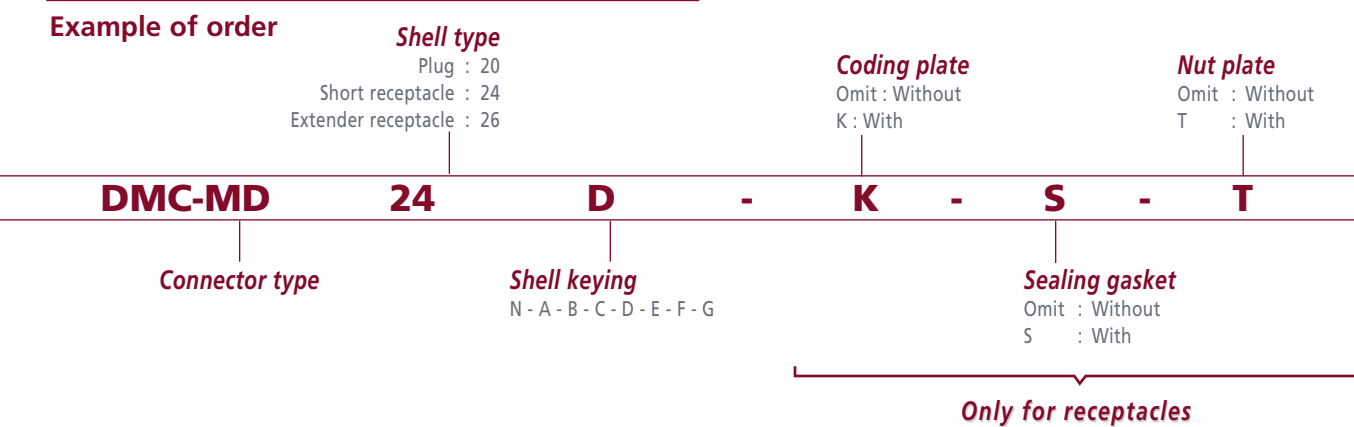
0,5 ± 0,1 N.m or 4,4 ± 0,9 In. LbF
When using DEUSCH integrated. Nut plate Réf. 787-0016-00 (see page 6)



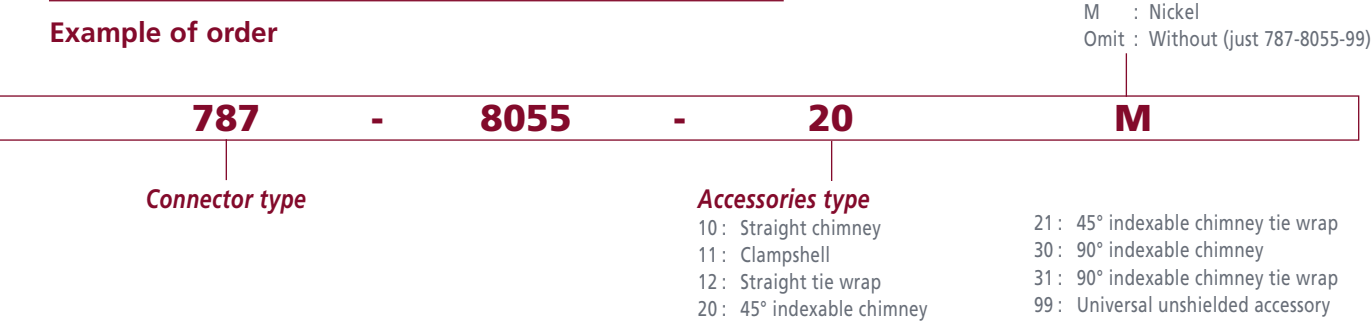
- 1 - Nut plate (option).
- 2 - Short receptacle.
- 2* - Extender receptacle.
- 3 - Sealing gasket (option).
- 4 - Panel (up to 2 mm thick).

- 5 - Color coding plate (option).
- 6 - Screws (ordered separately).
- 7 - Plug.
- 8 - Backshell.

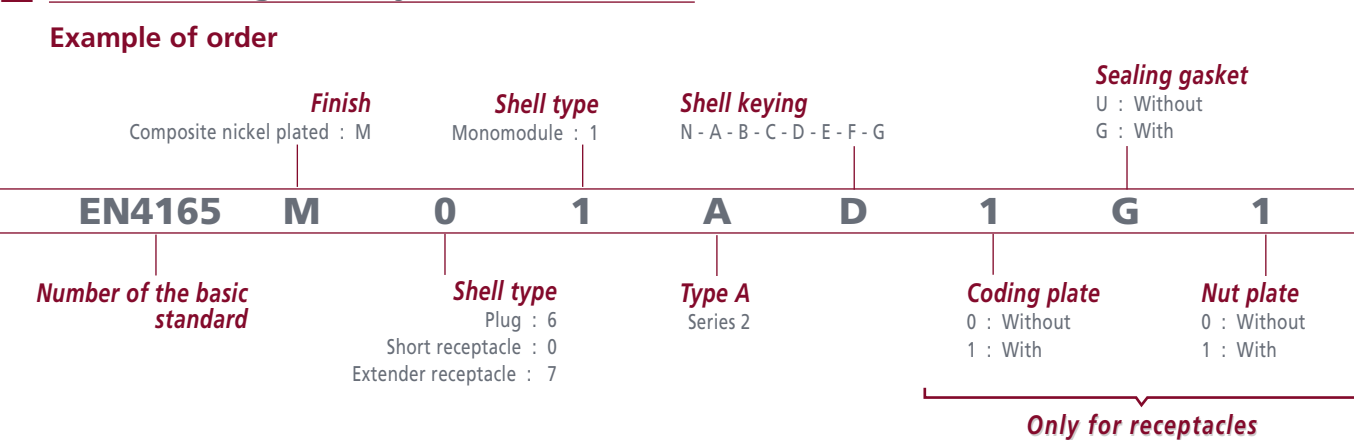
DEUTSCH designation system for the shells



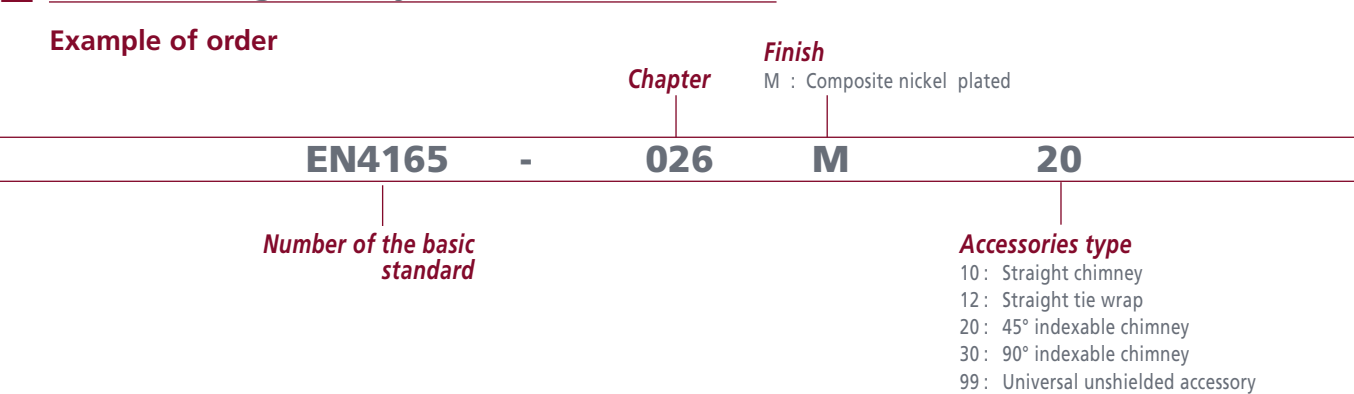
DEUTSCH designation system for the accessories



Standard designation system for the shells



Standard designation system for the accessories



Backshells

STRAIGHT CHIMNEY
787-8055-10M
EN4165-026M10



STRAIGHT CLAMPSHELL
787-8055-11M



UNIVERSAL UNSHIELDED ACCESSORY
787-8055-99
EN4165-026-99



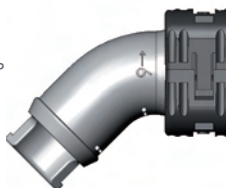
STRAIGHT CHIMNEY TIE WRAP
787-8055-12M
EN4165-026M12



45° INDEXABLE CHIMNEY
787-8055-20M
EN4165-026M20



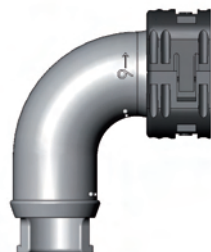
45° INDEXABLE CHIMNEY TIE WRAP
787-8055-21M



90° INDEXABLE CHIMNEY
787-8055-30M
EN4165-026M30

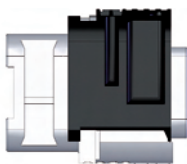


90° INDEXABLE CHIMNEY TIE WRAP
787-8055-31M

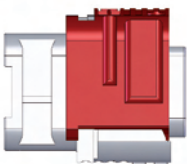


Plug

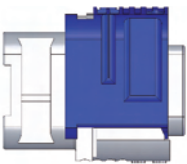
DMC-MD 20 N
BACC65BUMN
EN4165M61AN



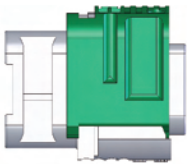
DMC-MD 20 A
BACC65BUMA
EN4165M61AA



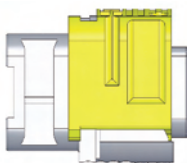
DMC-MD 20 B
BACC65BUMB
EN4165M61AB



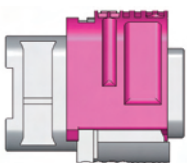
DMC-MD 20 C
BACC65BUMC
EN4165M61AC



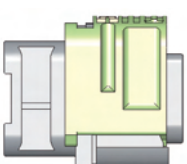
DMC-MD 20 D
BACC65BUMD
EN4165M61AD



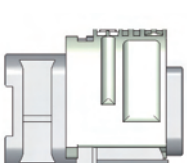
DMC-MD 20 E
EN4165M61AE



DMC-MD 20 F
EN4165M61AF



DMC-MD 20 G
EN4165M61AG



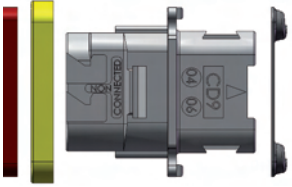
Note : EN4165 part numbers in progress to be released.

DEUTSCH Part numbers (DMC-M / 787)
BOEING Part numbers (BACC)
STANDARD Part numbers (EN4165)

Receptacles

EXTENDER RECEPTACLE

DMC-MD 26 *X
BACC65CAM*X
EN4165M71A*X

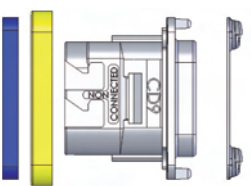


• : To be ordered separately
(no BACC65 references)

*X							
N	A	B	C	D	E	F	G

SHORT RECEPTACLE


DMC-MD 24 *X
BACC65BVM*X
EN4165M01A*X




• : To be ordered separately
(no BACC65 references)

NO ACCESSORY CAN BE FIXED
ON THIS RECEPTACLE

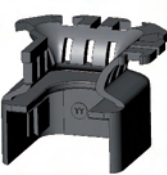
Backshells




STRAIGHT CHIMNEY
787-8055-10M
EN4165-026M10




STRAIGHT CLAMPSHELL
787-8055-11M



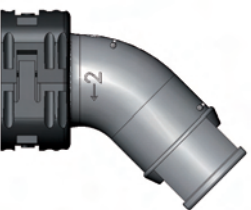
UNIVERSAL UNSHIELDED ACCESSORY
787-8055-99
EN4165-026-99




STRAIGHT CHIMNEY TIE WRAP
787-8055-12M
EN4165-026M12



45° INDEXABLE CHIMNEY
787-8055-20M
EN4165M20



45° INDEXABLE CHIMNEY TIE WRAP
787-8055-21M



90° INDEXABLE CHIMNEY
787-8055-30M
EN4165M30

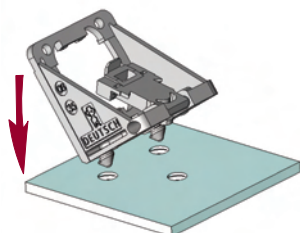


90° INDEXABLE CHIMNEY TIE WRAP
787-8055-31M

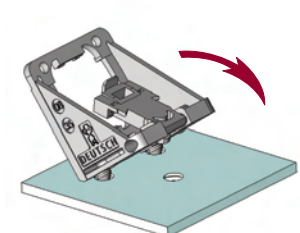
Note : EN4165 part numbers in progress to be released.

Optionnal parts for receptacle

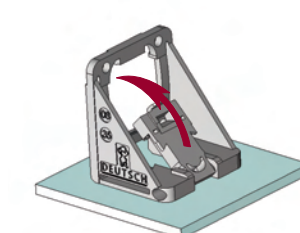
• Locate mating parts



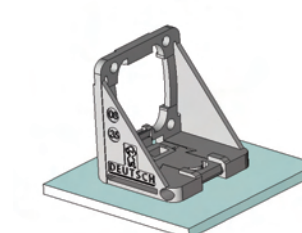
• Install rear dowels



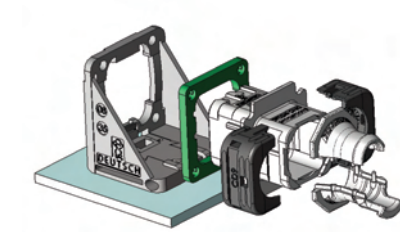
• Fix and snap in position



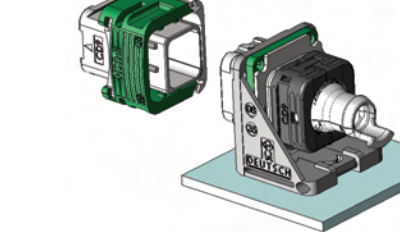
• Installed



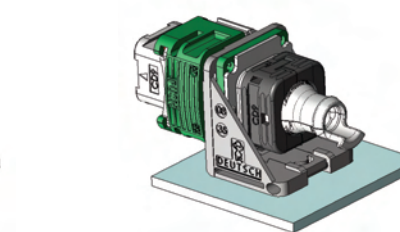
• Align receptacle with bracket




• Install and fix in position




• Assembled



HIGH SPEED CHIMNEY
FOR PART NUMBERING,
PLEASE CONSULT US



Note : These backshells have been
developed specially for high speed
wire management. Backshells have to
be ordered with the DMC-M 99-02-XX
inserts.



• Keying plate



N : 787-0015-00	EN4165-25CN
A : 787-0015-01	EN4165-25CA
B : 787-0015-02	EN4165-25CB
C : 787-0015-03	EN4165-25CC
D : 787-0015-04	EN4165-25CD
E : 787-0015-05	EN4165-25CE
F : 787-0015-06	EN4165-25CF
G : 787-0015-07	EN4165-25CG

• Sealing gasket



787-0011-00
EN4165-25E

• Nut plate




787-0016-00
EN4165-25D

• Panel mounting bracket




787-0014-00


Protective caps




SHIPPING AND
DUST PLUG CAP
104-0236-00




SHIPPING AND
DUST RECEPTACLE CAP
104-0235-00




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



PLUG
FLIGHT CAP
787-8010-00



RECEPTACLE AND EXTENDER FLIGHT CAP
WITH LANYARD 787-8017-00
WITHOUT LANYARD 787-8016-00


















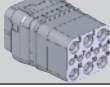





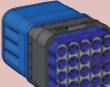
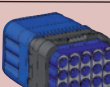

LANYARD
787-8013-00

Insert / Module

Single Module EN4165

Pin contacts as per MIL C 39029/58 and EN3155

Socket contacts as per MIL C 39029/57 and EN3155

Modules	Details	PART NUMBER CROSS	Modules	Details	PART NUMBER CROSS
	20 contacts size 22	DMC-M 20-22 AN BAC110BC2022PNB EN4165 20-22 A1NA		20 contacts size 22	DMC-M 20-22 BN BAC110BC2022SNB EN4165 20-22 A1NB
	12 contacts size 20	DMC-M 12-20 AN BAC110BC1220PNB EN4165 12-20 A1NA		12 contacts size 20	DMC-M 12-20 BN BAC110BC1220SNB EN4165 12-20 A1NB
	8 contacts size 16	DMC-M 08-16 AN BAC110BC0816PNB EN4165 08-16 A1NA		8 contacts size 16	DMC-M 08-16 BN BAC110BC0816SNB EN4165 08-16 A1NB
	4 contacts size 12	DMC-M 04-12 AN EN4165 04-12 A1NA		4 contacts size 12	DMC-M 04-12 BN EN4165 04-12 A1NB
	1 contact size 8	DMC-M 01-08 AN EN4165 01-08 A1NA		1 contact size 8	DMC-M 01-08 BN EN4165 01-08 A1NB
	6 contacts size 16 + 5 contacts size 22	DMC-M 99-01 AN BAC110BC1622PNB EN4165 99-01 A1NA		6 contacts size 16 + 5 contacts size 22	DMC-M 99-01 BN BAC110BC1622SNB EN4165 99-01 A1NB
	20 contacts size 22	DMC-MA 20-22 AN EN4165 20A22 A1NA		20 contacts size 22	DMC-MA 20-22 BN EN4165 20A22A1NB
	6 contacts size 16 + 5 contacts size 22	DMC-MA 99-01 AN EN4165 99A01A1NA		6 contacts size 16 + 5 contacts size 22	DMC-MA 99-01 BN EN4165 99A01 A1NB
	3 contacts size 20 + 8 contacts size 22	DMC-M 99-02 AN *		3 contacts size 20 + 8 contacts size 22	DMC-M 99-02 BN *
	8 contacts size 20 + 2 contacts size 16	DMC-M 99-10 AN EN4165 09-10 A1NA		8 contacts size 20 + 2 contacts size 16	DMC-M 99-10 BN EN4165 09-10 A1NB
	Blanking module	DMC-M 00-00 AN EN4165 00-00 A1NA			
				3 x 4 + 4 x 2 Shunted contacts size 22	DMC-M 22-07 SN MBBN 3330 Y2A22S
				5 x 4 Shunted contacts size 22	DMC-M 22-05 SN MBBN 3330 Y2022S
				10 x 2 Shunted contacts size 22	DMC-M 22-10 SN MBBN 3330 Y2B22S

Note : DMC-MA modules are compatible with Aluminium Cable contacts and with EN3155-70 / 71 size 22.

Distribution shunt modules use dedicated contacts based on standard M39029.

DMC-M 99-02 are specific modules for highspeed application.

Aluminium cable technology

Distribution shunt modules

* To be ordered with high speed chimney (see page 6)

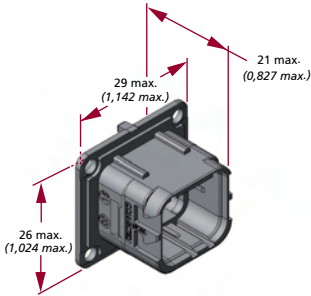
DEUTSCH Part numbers (DMC-M / 787)
BOEING Part numbers (BACC)
STANDARD Part numbers (EN4165)

Dimensions

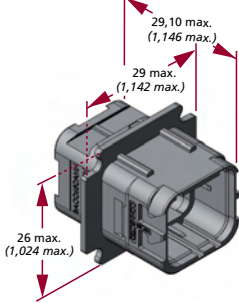
Single Module EN4165

Receptacles & Plug

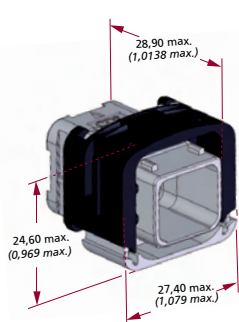
● Receptacle



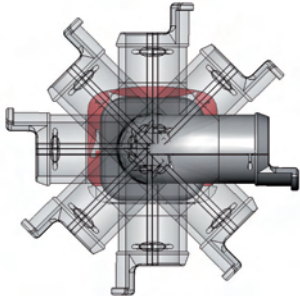
● Extender receptacle



● Plug



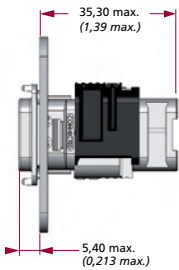
Backshell / chimney
indexation



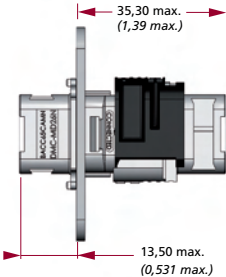
All backshells can be indexed in eight positions on the rear of plug and receptacle shell. This gives maximum flexibility during design and cable installation and reduces the number of variants and components.

Mounting panel details

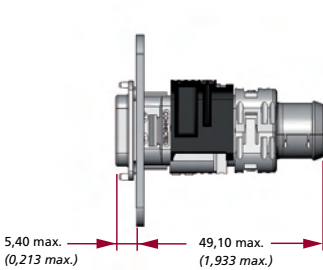
● Box mounting receptacle



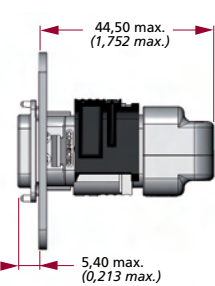
● Extender receptacle



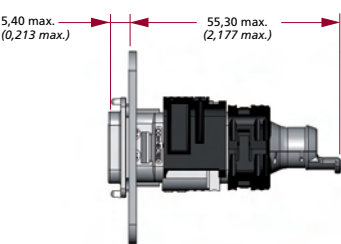
● Straight chimney



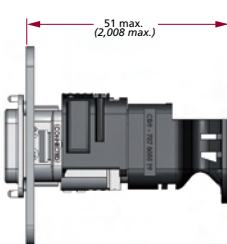
● Straight clampshell



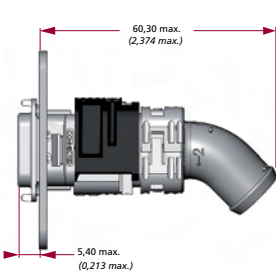
● Straight chimney tie wrap



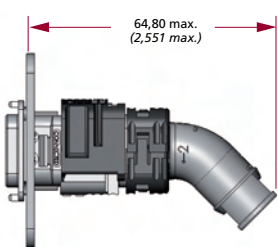
● Universal unshielded accessory



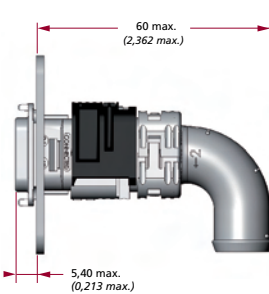
● 45° indexable chimney



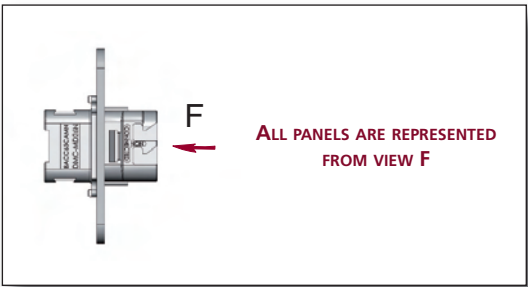
● 45° indexable chimney tie wrap



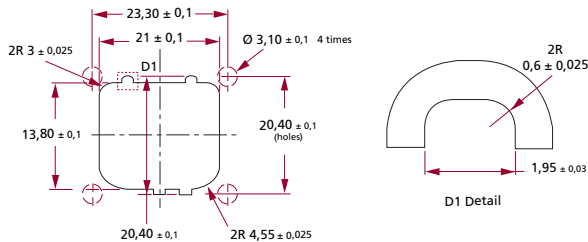
● 90° indexable chimney



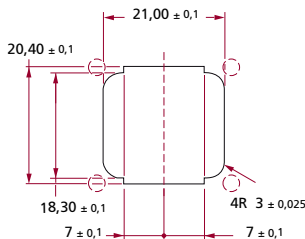
Panel mounting cutout details Single Module EN4165



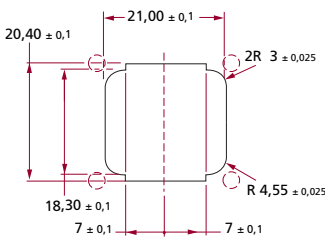
GENERIC DIMENSIONS



FREE

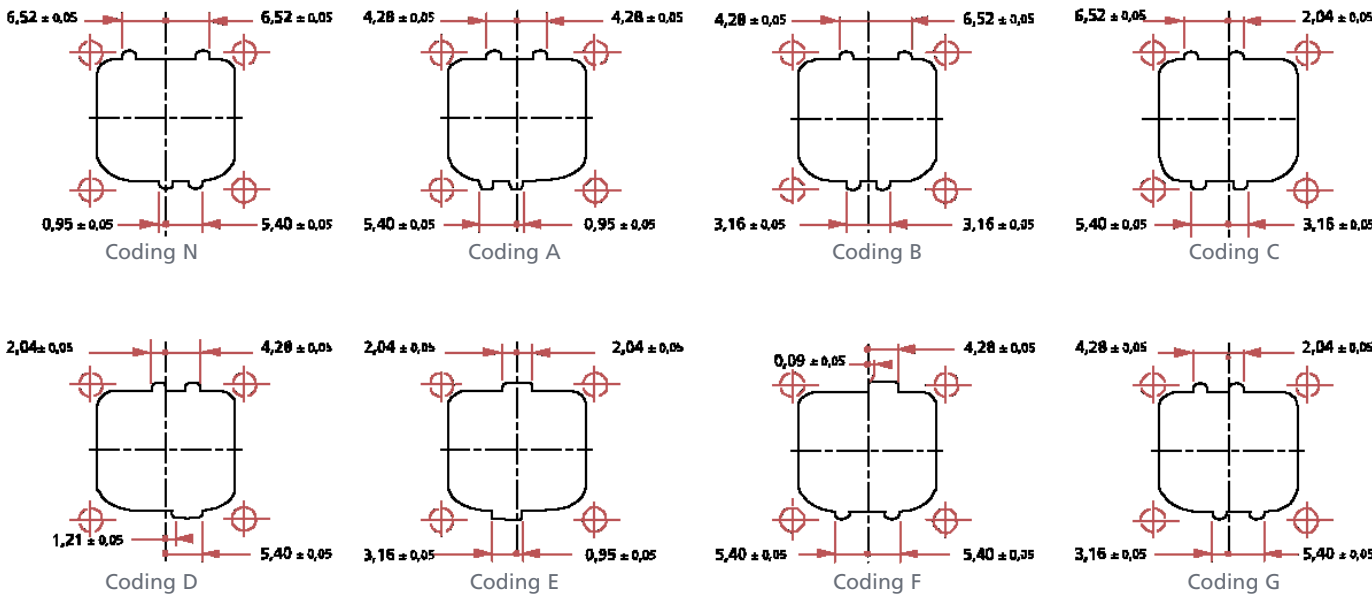


ORIENTATION

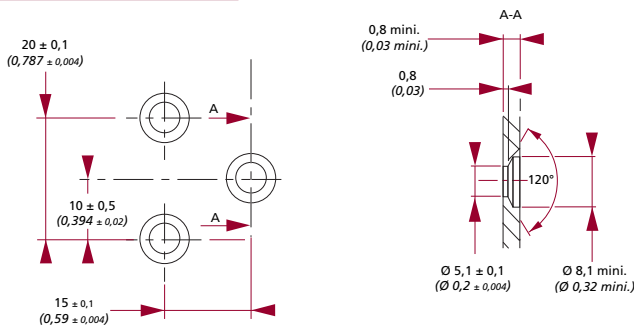


Note : Dimensions are in millimeters. Each hole Ø 3,1 mm must receive a screw (screw type 4-40)
Recommended thickness panel : 0,8 mm mini - 2 mm max.

Panel coding keying



Panel mounting bracket cutout details



Overall dimensions and characteristics are given for indication guidance only. DEUTSCH reserves the right to modify them for production improvement reasons



www.deutsch.net

DEUTSCH GLOBAL SALES NETWORK

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JAPAN

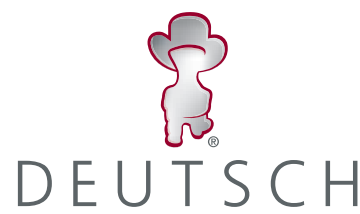
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assistance or custom solutions:
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