

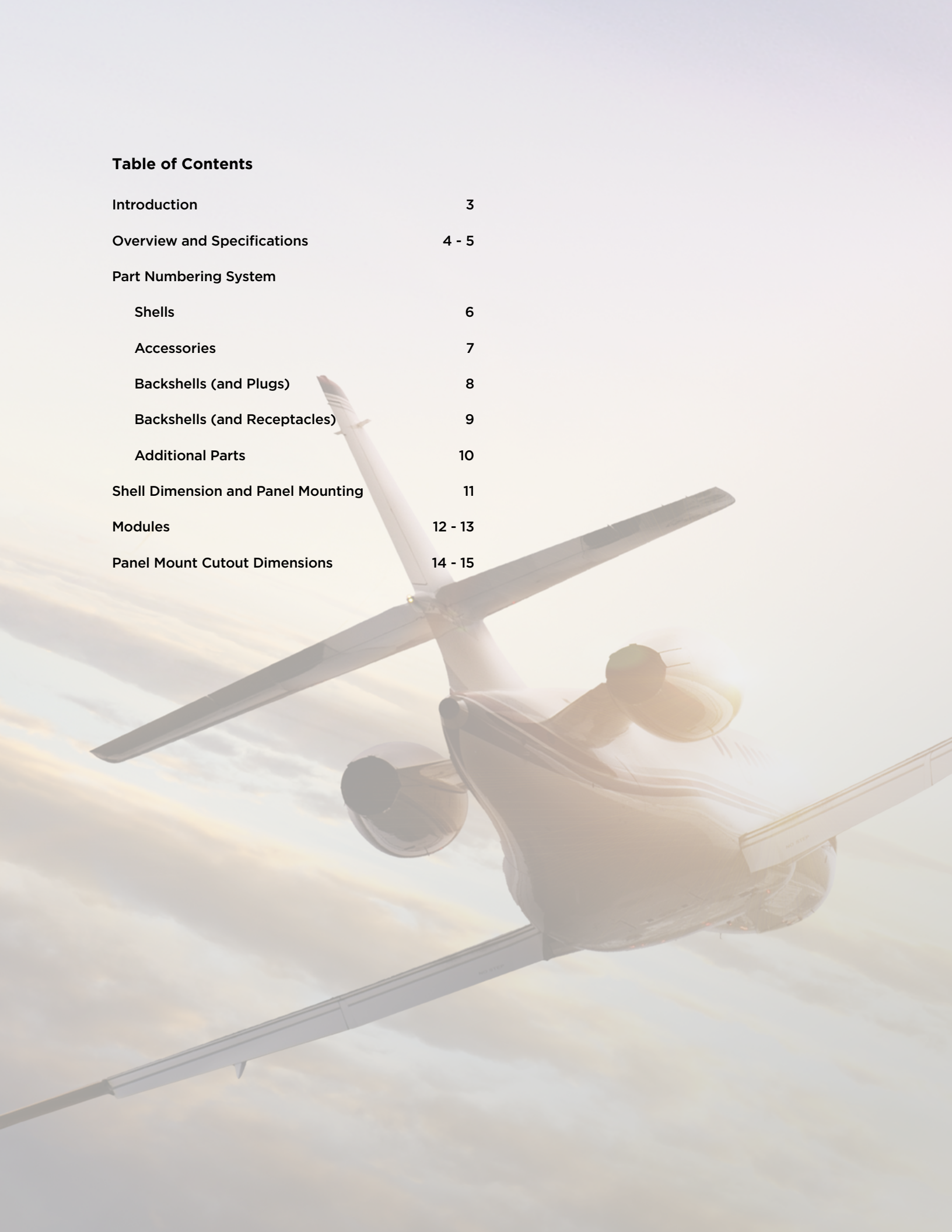
DEUTSCH DMC-MD SERIES

SINGLE MODULE EN4165, ARINC 809,
BACC65 CONNECTORS

Quick Change Modular Connector Solutions
For Aircraft IFE and Cabin Systems

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THE STANDARD CONNECTOR FOR 4TH GENERATION CABIN NETWORKS

ARINC 809, BACC65, EN4165



QUALIFIED

- EN4165
- ARINC 809
- BACC65

APPLICATIONS

- Cabin Systems
- In-Flight Entertainment
- Avionics



Specifications

MATERIALS

- **Housing:** Composite, nickel plated
- **Modules:** Thermoplastic and fluorinated silicone
- **Crimp Contacts:** Copper alloy, plated gold over nickel
- **PCB Contacts:** Copper alloy, plated gold over nickel, with lead or RoHS tinning option

MECHANICAL/ENVIRONMENTAL

- **Temperature Range:** -55°C to +175°C
- **Vibration:** 20 g
- **Durability:** 500 mating cycles
- **Salt Spray:** 500 hours
- **Interfacial Sealing:** 1.1 x 10⁻² bar

ELECTRICAL

- **Insulation Resistance:** 5000 MΩ
- **Contact Current Rating:**
 - Size 24: 3 A
 - Size 23: 5 A
 - Size 22: 5 A
 - Size 20: 7.5 A
 - Size 16: 13 A
 - Size 12: 23 A
 - Size 8: 46 A

EMI SHIELDING PERFORMANCE

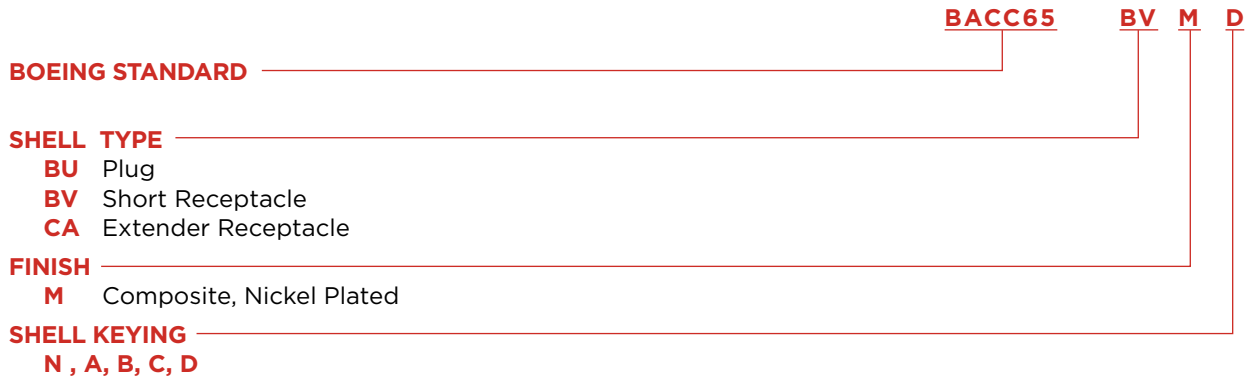
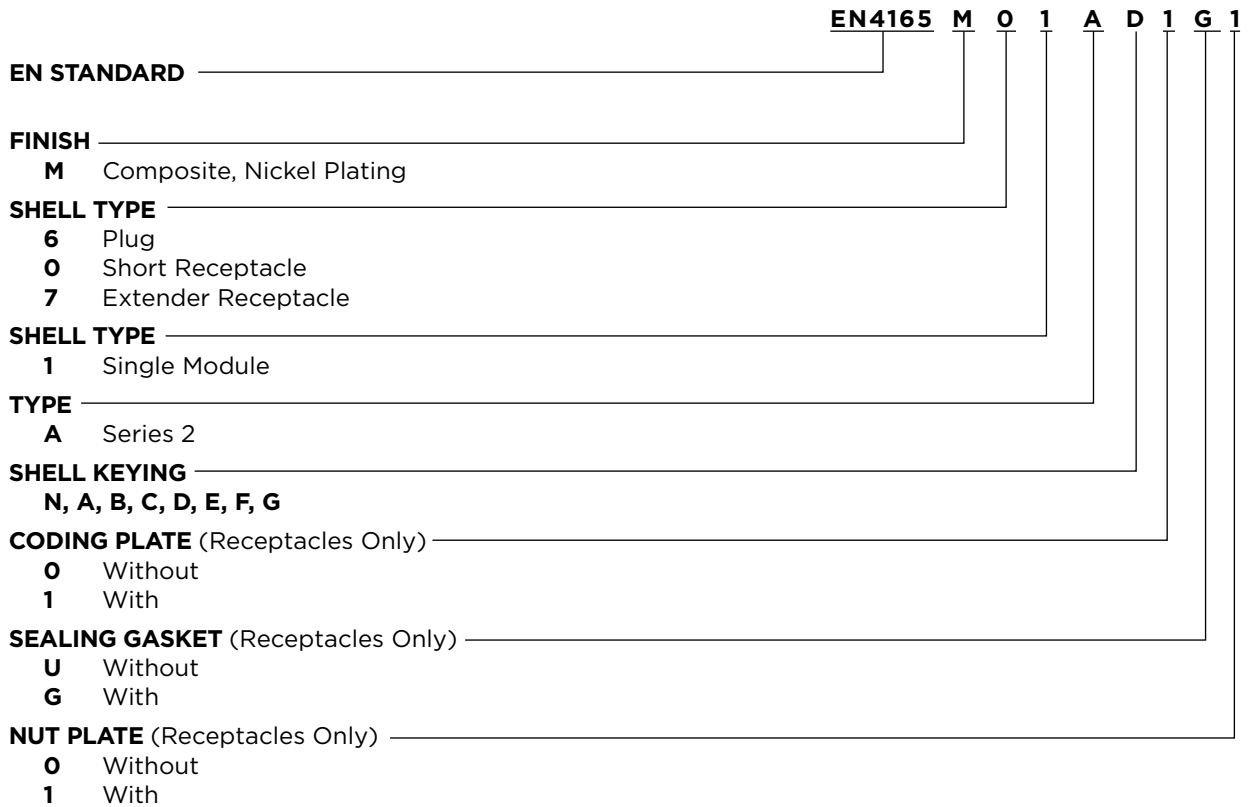
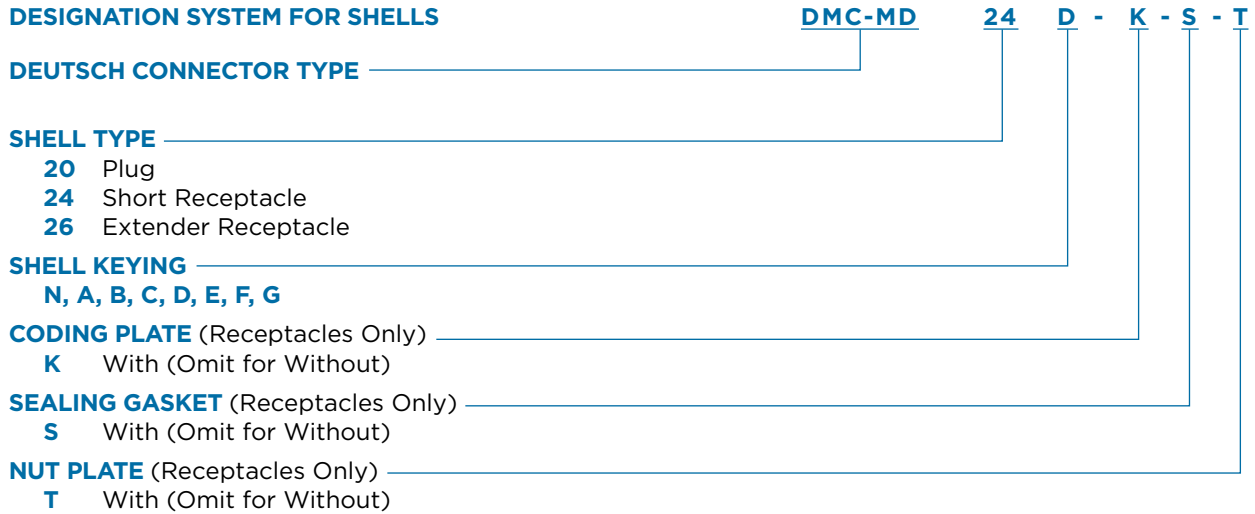
Frequency (MHz)	100	200	300	400	800	1000
Attenuation (dB)	50	45	45	40	35	30

WEIGHT

Extender Receptacle	Short Receptacle	Plug	Backshell
7 gr	6 gr	9 gr	4 - 7 gr
0.015 lbs	0.013 lbs	0.020 lbs	0.009 - 0.015 lbs



DESIGNATION SYSTEM FOR SHELLS

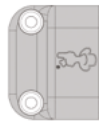




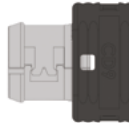
BACKSHELLS

PLUGS

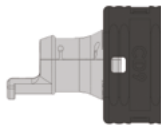
STRAIGHT CLAMPSHELL
787-8055-11M
Screws delivered



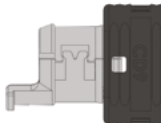
STRAIGHT CHIMNEY
787-8055-10M
EN4165-026M10



STRAIGHT CHIMNEY
TIE WRAP Ø 7
787-8055-12M



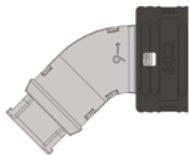
STRAIGHT CHIMNEY
TIE WRAP Ø 10
787-8055-13M
EN4165-026M10A



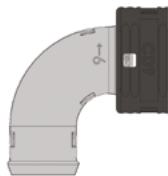
45° INDEXABLE CHIMNEY
787-8055-20M
EN4165-026M20



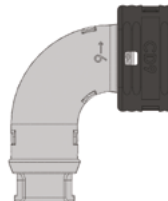
45° INDEXABLE CHIMNEY
TIE WRAP
787-8055-21M
EN4165-026M20A



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



90° INDEXABLE CHIMNEY
TIE WRAP
787-8055-31M
EN4165-026M30A



DMC-MD 20 N
BACC65BUMN
EN4165M61AN



DMC-MD 20 A
BACC65BUMA
EN4165M61AA



DMC-MD 20 B
BACC65BUMB
EN4165M61AB



DMC-MD 20 C
BACC65BUMC
EN4165M61AC



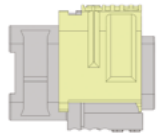
DMC-MD 20 D
BACC65BUMD
EN4165M61AD



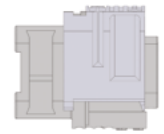
DMC-MD 20 E
EN4165M61AE



DMC-MD 20 F
EN4165M61AF



DMC-MD 20 G
EN4165M61AG

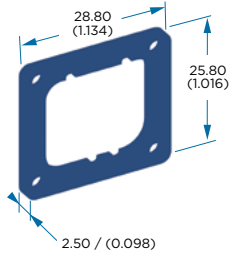


TE/DEUTSCH Part Numbers (DMC-MD / 787)
BOEING Part Numbers (BACC65)
STANDARD Part Numbers (EN4165)



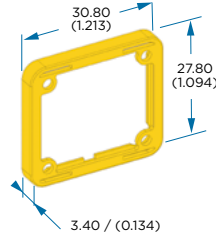
OPTIONAL PARTS FOR RECEPTACLE

Keying Plate



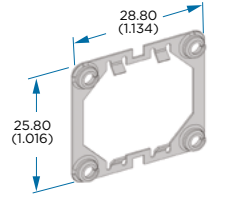
- N: 787-0015-00 EN4165-25CN
- A: 787-0015-01 EN4165-25CA
- B: 787-0015-02 EN4165-25CB
- C: 787-0015-03 EN4165-25CC
- D: 787-0015-04 EN4165-25CD
- E: 787-0015-05 EN4165-25CE
- F: 787-0015-06 EN4165-25CF
- G: 787-0015-07 EN4165-25CG

Sealing Gasket



787-0011-00
EN4165-25E

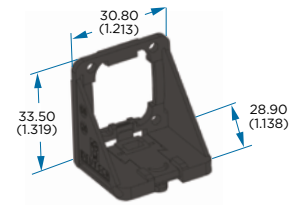
Nut Plate



Recommended Screw Torque
0.5 ±0.1 N.m or 4.4 ±0.9 in.lbf

787-0016-00
EN4165-25D

Panel Mounting Bracket



787-8014-00

PROTECTIVE CAPS

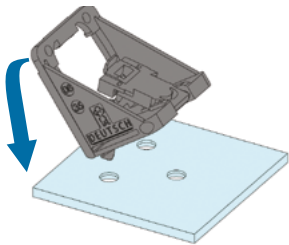


Protection Level	Plug Cap	Receptacle Cap	ESD Receptacle Cap	Receptacle and Extender Cap	Plug Flight Cap	Receptacle and Extender Flight Cap
	104-0236-00	104-0235-00	104-0334-00	With Lanyard: 787-8011-00 W/O Lanyard: 787-8009-00	787-8010-00	With Lanyard: 787-8017-00 EN4165M3C W/O Lanyard: 787-8016-00
Shipping	X	X	X	-	-	-
Dust	X	X	X	X	X	X
EMI	-	-	X	-	X	X
Low Pressure Sealing	-	-	-	-	X	X

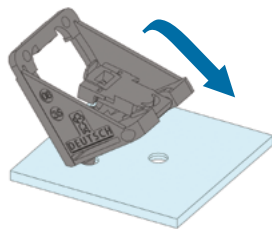


MOUNTING BRACKETS

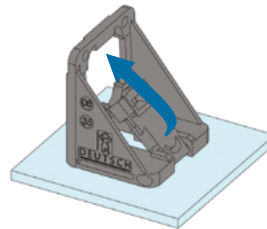
- Locate mating parts



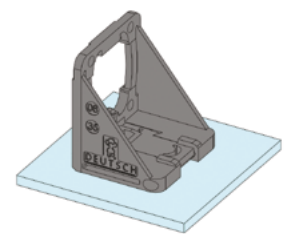
- Install rear dowels



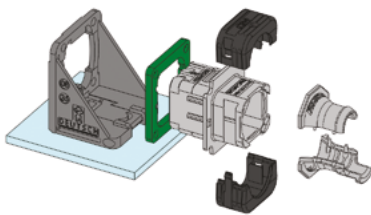
- Fix and snap in position



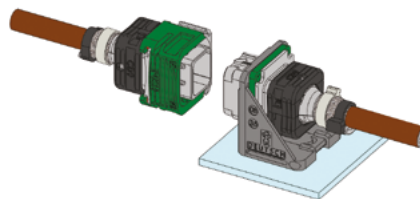
- Installed



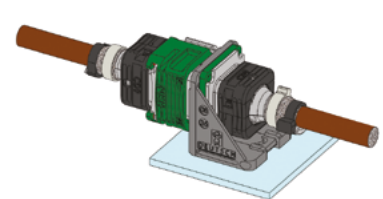
- Align receptacle with bracket



- Install and fix in position



- Assembled





ELECTRICAL MODULES / AS39029/57 AND /58 AND EN3155 CONTACT COMPLIANT

Configuration	Pin Contacts		Socket Contacts	
	View	Part No.	View	Part No.
30 Size 23 Contacts		DMC-MR 30-23 AN		DMC-MR 30-23 BN
20 Size 22 Contacts		DMC-M 20-22 AN BAC110BC2022PNB EN4165A20-221NA		DMC-M 20-22 BN BAC110BC2022SNB EN416520-22 A1NB
20 Size 22 Contacts		DMC-MA 20-22 AN EN4165A20A221NA		DMC-MA 20-22 BN EN4165A20A221NB
12 Size 20 Contacts		DMC-M 12-20 AN BAC110BC1220PNB EN4165A12-201NA		DMC-M 12-20 BN BAC110BC1220SNB EN4165A12-201NB
8 Size 16 Contacts		DMC-M 08-16 AN BAC110BC0816PNB EN4165A08-161NA		DMC-M 08-16 BN BAC110BC0816SNB EN4165A08-161NB
4 Size 12 Contacts		DMC-M 04-12 AN EN4165A04-121NA		DMC-M 04-12 BN EN4165A04-121NB
1 Size 8 Contact		DMC-M 01-08 AN EN4165A01-081NA		DMC-M 01-08 BN EN4165A01-081NB
6 Size 16 Contacts 5 Size 22 Contacts		DMC-M 99-01 AN BAC110BC1622PNB EN4165A99-011NA		DMC-M 99-01 BN BAC110BC1622SNB EN4165A99-011NB
8 Size 22 Contacts 2 Size 12 Contacts		DMC-M 99-06 AN BAC110BC1001PNB		DMC-M 99-06 BN BAC110BC1001SNB
8 Size 20 Contacts 2 Size 16 Contacts		DMC-M 99-10 AN EN4165A99-101NA		DMC-M 99-10 BN EN4165A99-101NB
6 Size 16 Contacts 5 Size 22 Contacts		DMC-MA 99-01 AN EN4165A99A011NA		DMC-MA 99-01 BN EN4165A99A011NB

ELECTRICAL MODULES / BACC47 CONTACT COMPLIANT

Configuration	Pin Contacts		Socket Contacts	
	View	Part No.	View	Part No.
8 Size 20 Contacts 2 Size 16 Contacts		DMC-MB 99-10 AN BAC110BC0910PNB		DMC-MB 99-10 BN BAC110BC0910SNB
12 Size 20 Contacts		DMC-MB 12-20 AN BAC110BC1220APNB		DMC-MB 12-20 BN BAC110BC1220ASNB

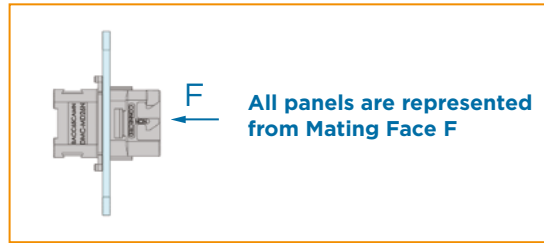
Note : DMC-MD connector modules are compatible with aluminium cable contacts and with EN3155-70 / 71 size 22.

Aluminium cable technology possible with size 22 contacts

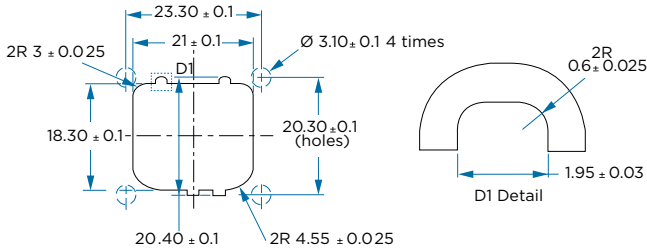
TE/DEUTSCH Part Numbers (DMC-MD / 787)
BOEING Part Numbers (BAC110BC)
STANDARD Part Numbers (EN4165)



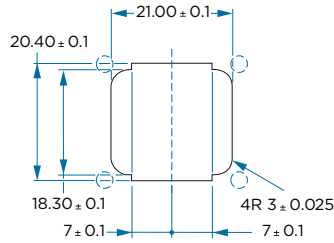
Panel Mounting Cutout Details



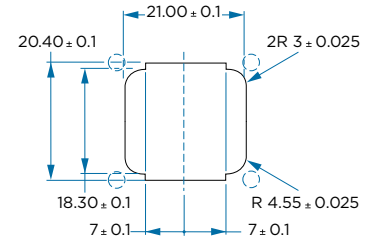
GENERIC DIMENSIONS



FREE



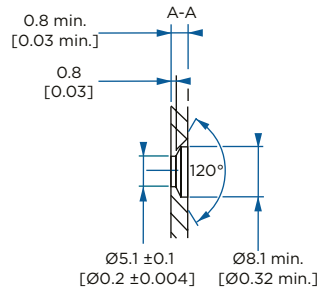
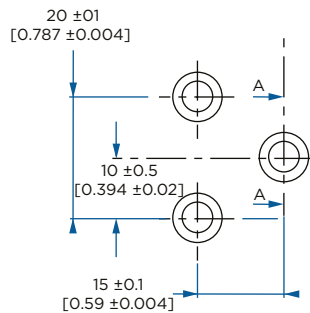
ORIENTATION



Note: Dimensions are in millimeters. Each hole Ø 3.1 mm must receive a No. 4-40 screw (not supplied)
Recommended thickness panel: 0.8 mm min. - 2 mm max.

Recommended screw torque is 0.5 ± 0.1 N.m or 4.4 ± 0.9 in.lbf

PANEL MOUNTING BRACKET CUTOUT DETAILS



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

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QUICK CHANGE MODULAR CONNECTOR SOLUTIONS FOR AIRCRAFT IFE AND CABIN SYSTEMS



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