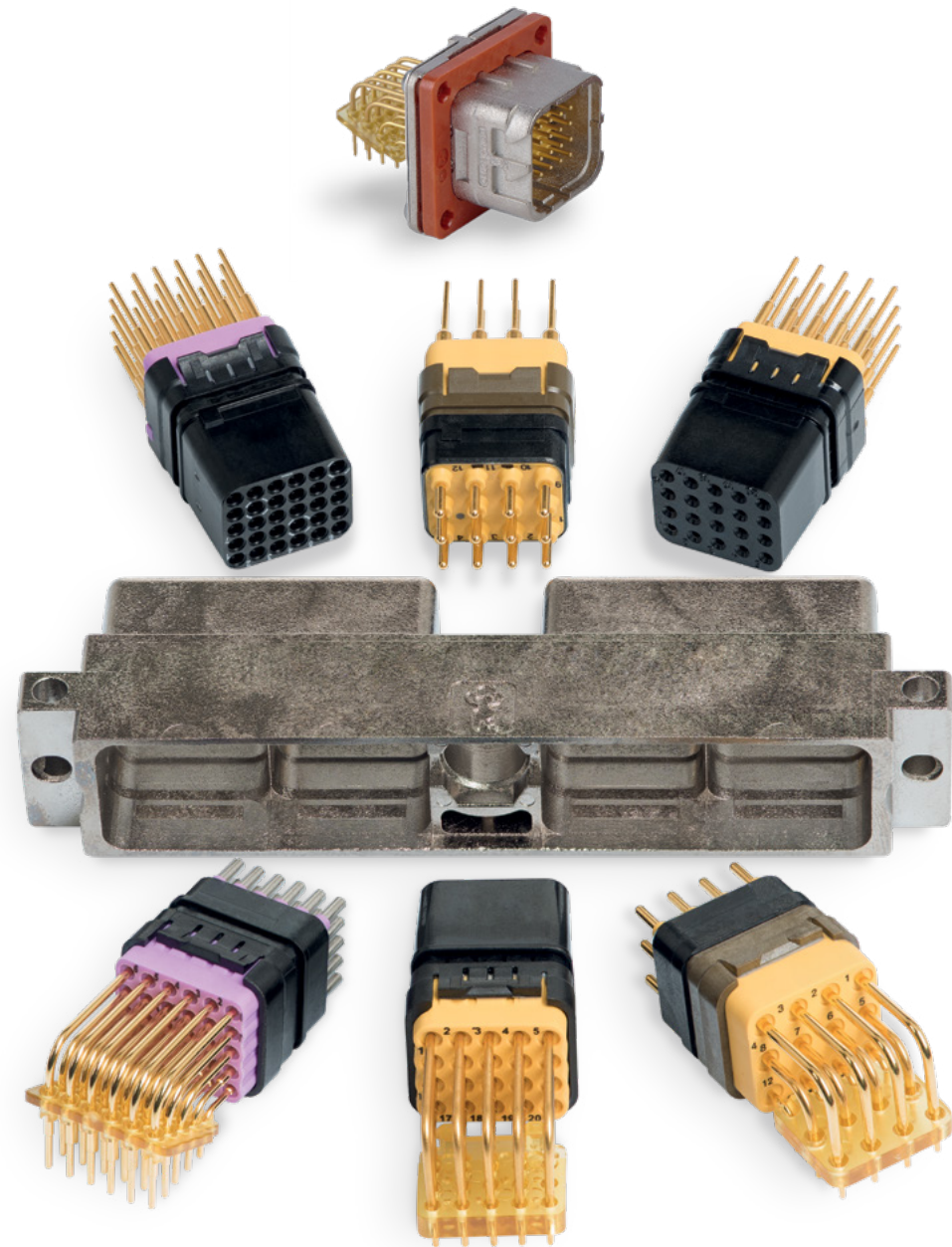


DEUTSCH DMC-M Series

PRINTED CIRCUIT BOARD MODULES

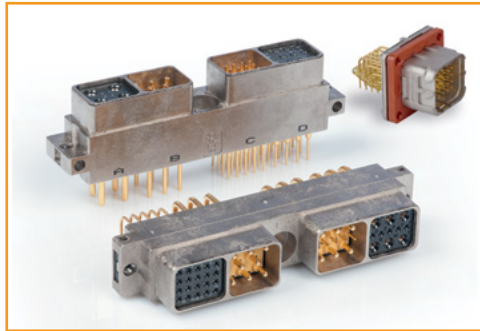
The Rugged, Modular Solution for
Flexible, Reliable Aerospace Connectivity



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DEUTSCH DMC-M SERIES PCB MODULES



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. TE's offering is one of the largest around the world.

Based on the EN4165 design, these connectors are available in Printed Circuit Board (PCB) version. Lightweight and compact, they offer a flexible and reliable solution.

MATERIALS

- **Module:** Thermoplastic and fluorinated silicone
- **Contact:** Copper alloy, plated gold over nickel (tinning with(out) lead also available)

MECHANICAL/ENVIRONMENTAL

- **Durability:** 500 mating cycles
- **Operating Temperature:** -55 °C to +175 °C
- **Contact Retention:**

Size 24: 2.7 daN (6.1 lb.)	Size 20: 9.0 daN (20.2 lb.)
Size 23: 4.5 daN (10.1 lb.)	Size 16: 11.0 daN (24.7 lb.)
Size 22: 4.5 daN (10.1 lb.)	Size 12: 13.0 daN (29.2 lb.)

ELECTRICAL

- **Withstand Voltage:**

At sea level :
Service I: 1300 Vrms 50 Hz, modules size 23 and 22
Service II: 1500 Vrms 50 Hz, modules size 20, 16 and 12
- **Contact Current Rating (Sealed connector):**

Size 24: 3 A	Size 20: 7.5 A
Size 23: 5 A	Size 16: 13 A
Size 22: 5 A	Size 12: 23 A

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.

MODULARITY

- PCB contacts from size 12 to 24
- Straight and bended versions

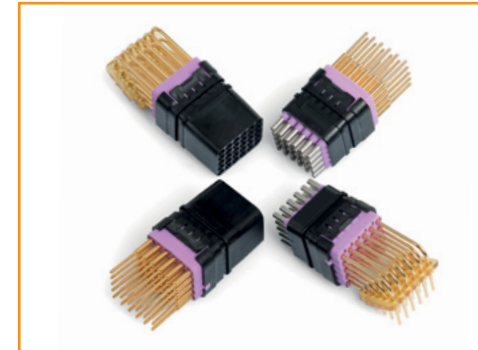
PCB CONTACT FINISH

- Gold finish
- Lead tinning
- RoHS (Restriction of Hazardous Substances) tinning

SPACE AND WEIGHT OPTIMIZATION

- High density
- Compact solution
- To be used with :
 - DMC-MD 24 * * *
 - DMC-MD 43 * * * 01 ****
 - DMC-MD 45 * * * 01 ****
 - DMC-MD 83 * * * 01 ****
 - DMC-MD 85 * * * 01 ****

DEUTSCH DMC-M Series PCB modules



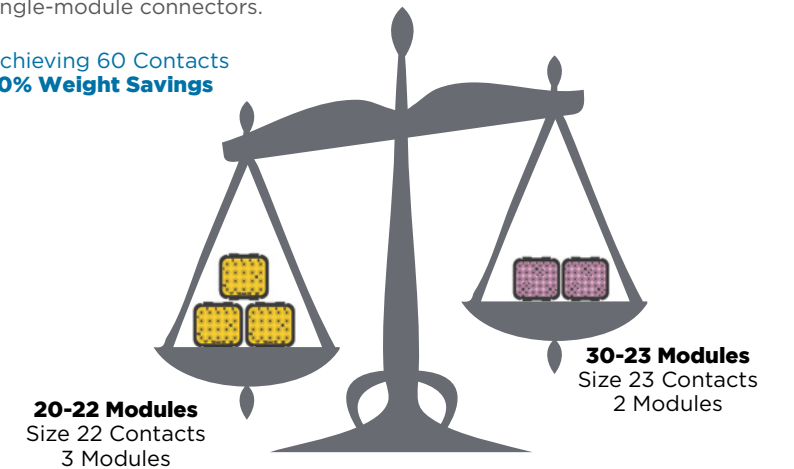
- High-density
- Reverse design
- Designed for EN4165, BACC65 and ARINC 809 shells
- Second moment of area of sleeve on a socket contact 8x stronger than on a pin
- 30% weight savings

DMC-M 30-23 Modules Presentation

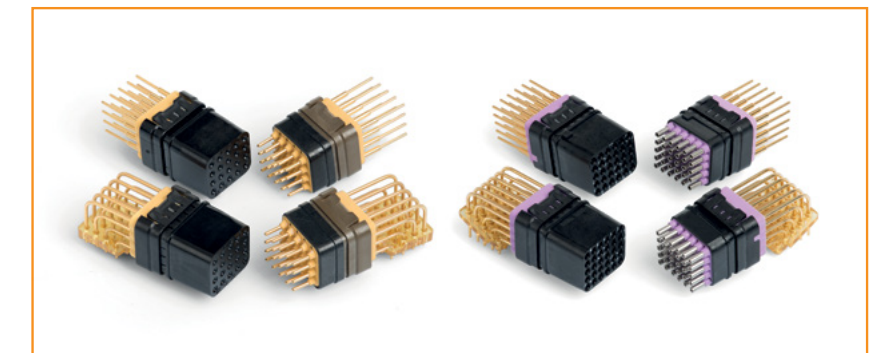
30-23 modules from TE Connectivity allow to achieve a higher density with a reverse design offering enhanced pin protection.

This 30-position module provides a 50% increase in contact counts over 20-22 modules. Two 30-23 modules will provide the same 60-contact density as three 20-22 modules. This reduces connector and harness sizes and weights. The use of plastic clip design increases density and saves weight. These 30-23 modules can be used with DEUTSCH DMC-M multimodule and single-module connectors.

Achieving 60 Contacts
30% Weight Savings



DMC-M high-density 30-23 modules help solve the issue of fragile contact pins being bent upon blind mating. Designed for EN4165, BACC65 and ARINC 809 shells, these new reverse design modules contain the pin contacts inside the modules to help prevent pin damage. The reason of the reverse design is based on the second moment of area of sleeve on a socket contact which is 8x stronger than on a pin contact.



20-22 Module
20 Size 22 Contacts

30-23 Module
30 Size 23 Contacts

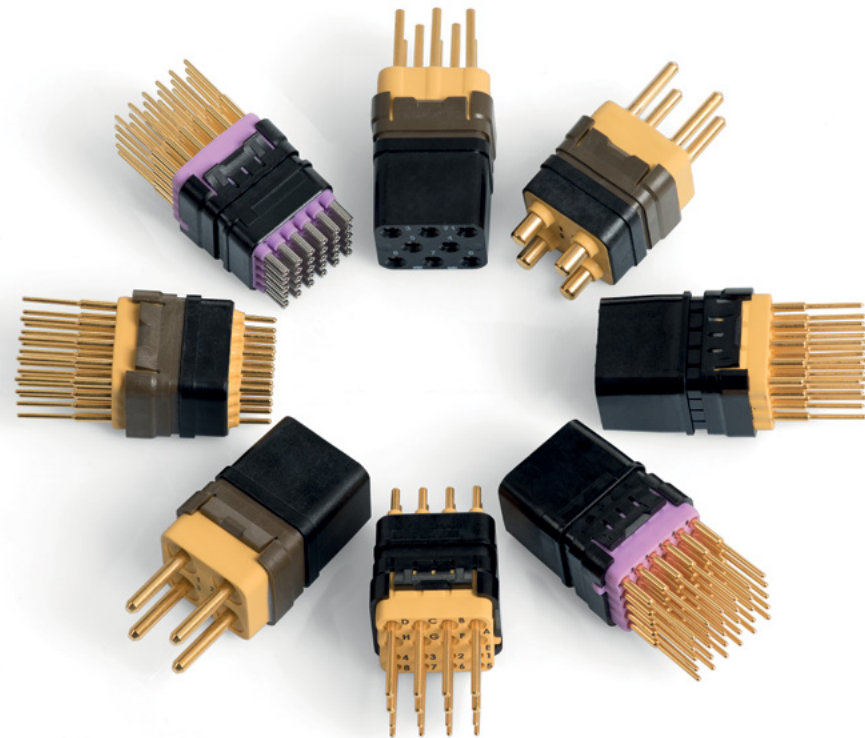
50% Higher Contact Density
Stronger Design • Equal Performance
Selected by EN4165 Users



TE Part Numbering System For DMC-M Modules With Straight PCB Contacts

732 - 82 XX - XX X

MODULE TYPE	
55	pin module
60	socket module
CONTACT SIZE	
23	
22	
20	
16	
12	
99	size 16 and 22
CONTACTS FINISH	
Ø	no tinning
T	tinning with lead
R	tinning without lead



DMC-M Modules With Straight PCB Contacts

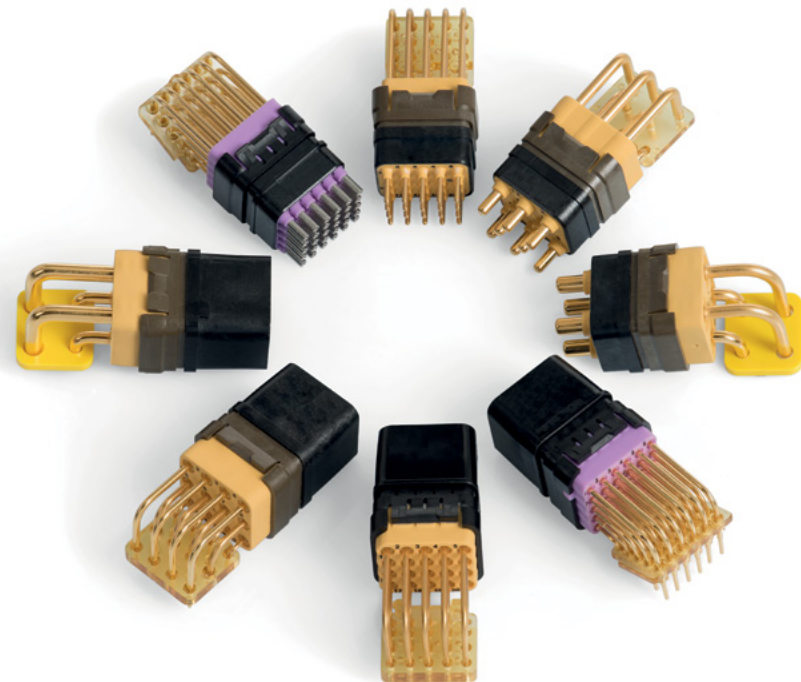
Pin Contacts Modules			Socket Contacts Modules		
Arrangement	Configuration	View	Part No.	View	Part No.
30-23	30 Contacts, Size 23		732-8255-23 X (reverse design)		732-8260-23 X (reverse design)
20-22	20 Contacts, Size 22		732-8255-22 X		732-8260-22 X
12-20	12 Contacts, Size 20		732-8255-20 X		732-8260-20 X
08-16	8 Contacts, Size 16		732-8255-16 X		732-8260-16 X
04-12	4 Contacts, Size 12		732-8255-12 X		732-8260-12 X
99-01	6 Contacts, Size 16 5 Contacts, Size 22		732-8255-99 X		732-8260-99 X



TE Part Numbering System for DMC-M Modules With Bended PCB Contacts

732 - 82 XX - XX X XXXXX

MODULE TYPE		
54	pin module	
56	socket module	
CONTACT SIZE		
23		
22		
20		
16		
99	size 16 and 22	
CONTACTS FINISH		
Ø	no tinning	
T	tinning with lead	
R	tinning without lead	
KEY ORIENTATION		
A 1533	PCB contacts opposed to the key module	



DMC-M Modules With Bended PCB Contacts

Arrangement	Configuration	Pin Contacts Modules		Socket Contacts Modules	
		View	Part No.	View	Part No.
30-23	30 Contacts, Size 23		732-8254-23 X XXXXX (reverse design)		732-8256-23 X XXXXX (reverse design)
20-22	20 Contacts, Size 22		732-8254-22 X XXXXX		732-8256-22 X XXXXX
12-20	12 Contacts, Size 20		732-8254-20 X XXXXX		732-8256-20 X XXXXX
08-16	8 Contacts, Size 16		732-8254-16 X XXXXX		732-8256-16 X XXXXX
04-12	4 Contacts, Size 12		732-8254-12 X XXXXX		732-8256-12 X XXXXX
99-01	6 Contacts, Size 16 5 Contacts, Size 22		732-8254-99 X XXXXX		732-8256-99 X XXXXX



High-Speed DMC-M Modules PCB Contacts

Pin Contacts Modules			Socket Contacts Modules		
Arrangement	Configuration	View	Part No.	View	Part No.
16-02 Straight PCB	6 Contacts, Size 16 2 Contacts, Size 22 8 Contacts, Size 24		2828645		2828646
16-02 90° Bended PCB	6 Contacts, Size 16 2 Contacts, Size 22 8 Contacts, Size 24		2226982		2226983
99-03 Straight PCB	8 Contacts, Size 20 8 Contacts, Size 24		732-8308-01		732-8307-01
99-03 Bended PCB	8 Contacts, Size 20 8 Contacts, Size 24		732-8298-03		732-8299-03
99-04 Straight PCB	6 Contacts, Size 20 2 Contacts, Size 22 8 Contacts, Size 24		732-8301-04		732-8302-04



Other TE DMC-M Series Connectors Brochures

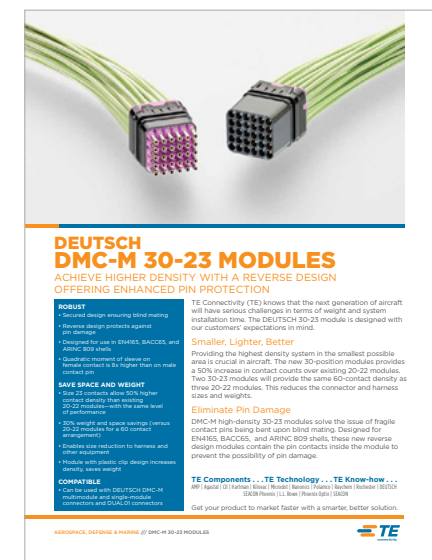
MULTICAVIDITY



SINGLE MODULE



30-23



LET'S CONNECT

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www.te.com/dmcm

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Consult TE for the latest dimensions and design specifications.

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