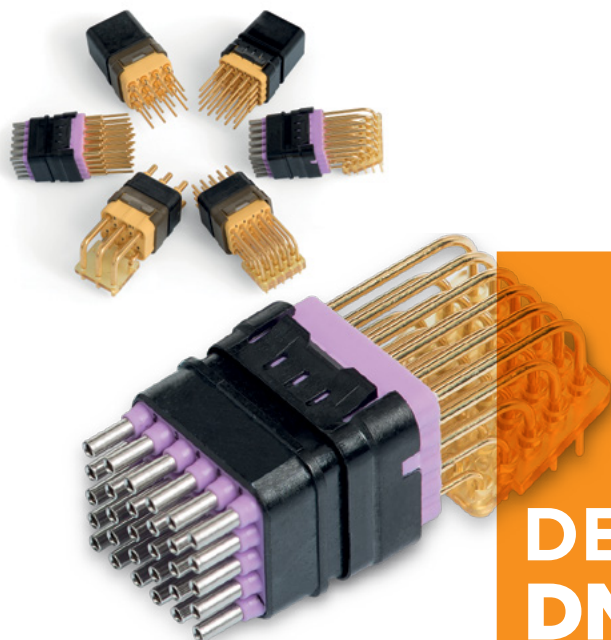
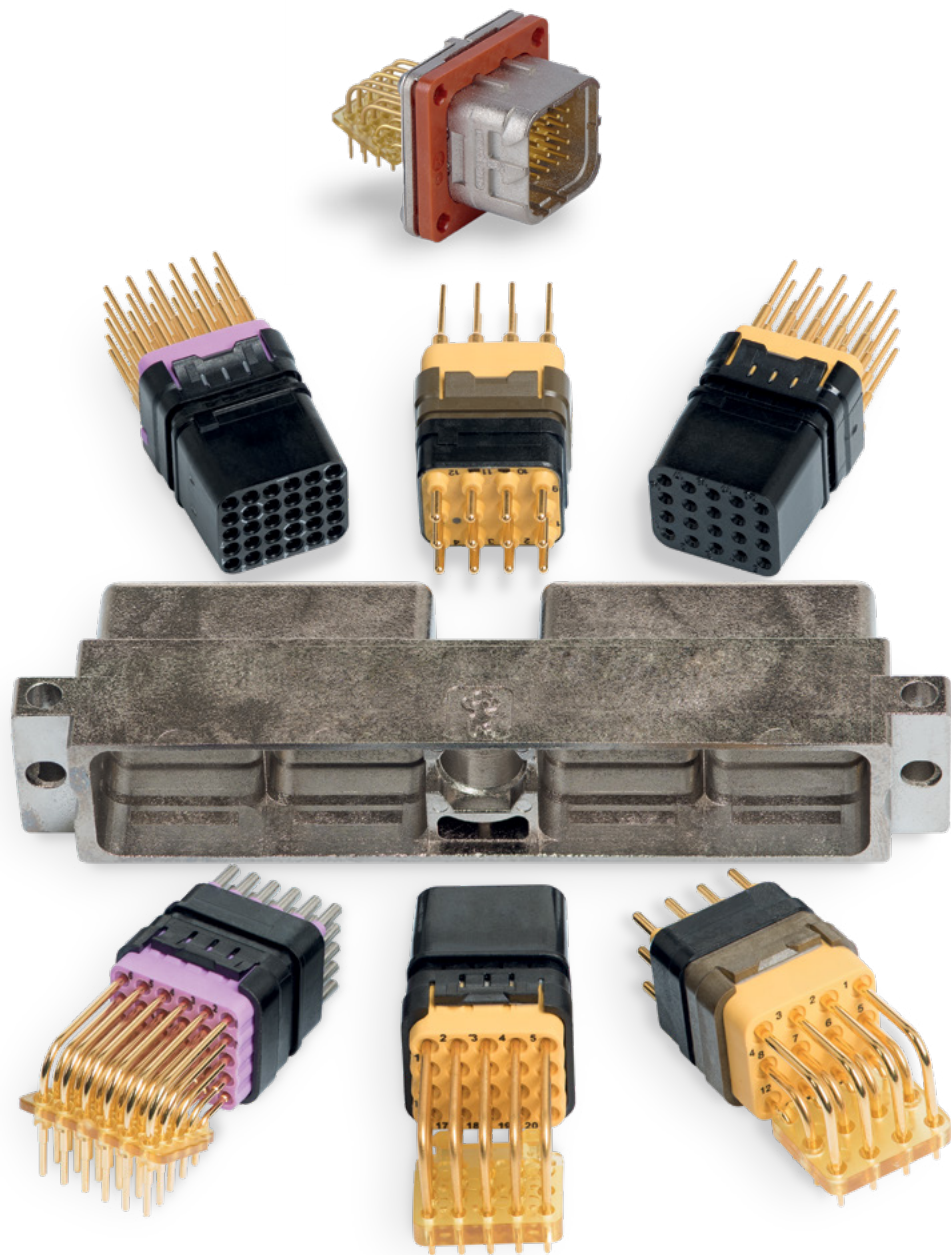




DEUTSCH DMC-M Series

PRINTED CIRCUIT BOARD MODULES

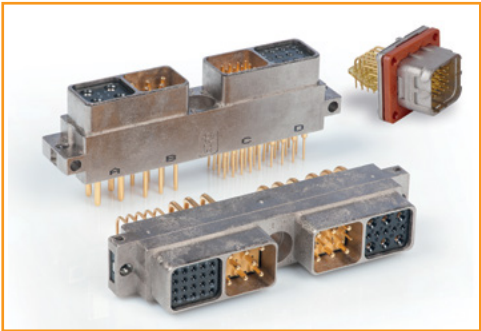
The Rugged, Modular Solution for
Flexible, Reliable Aerospace Connectivity



CONTENTS

Introduction	04
DMC-M 30-23 modules presentation	05
TE part numbering system for DMC-M modules with straight PCB contacts	06
DMC-M modules with straight PCB contacts	07
TE part numbering system for DMC-M modules with bended PCB contacts	08
DMC-M modules with bended PCB contacts	09
High-speed DMC-M modules PCB contacts	10
Other TE DMC-M series connectors brochures	11

DEUTSCH DMC-M SERIES PCB MODULES



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 ****

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

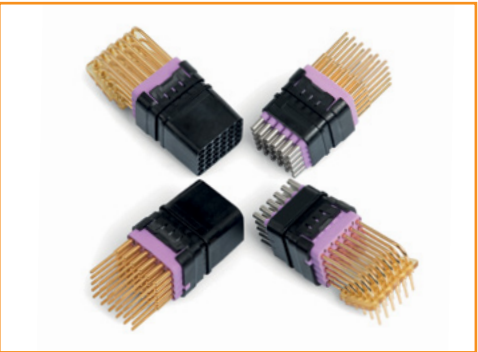
- **Withstand Voltage:**
At sea level :
Service I: 1300 Vrms 50 Hz, modules size 23 and 22
Service II: 1500 Vrms 50 Hz, modules size 20, 16 and 12
- **Contact Current Rating (Sealed connector):**

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.

DEUTSCH DMC-M Series PCB modules



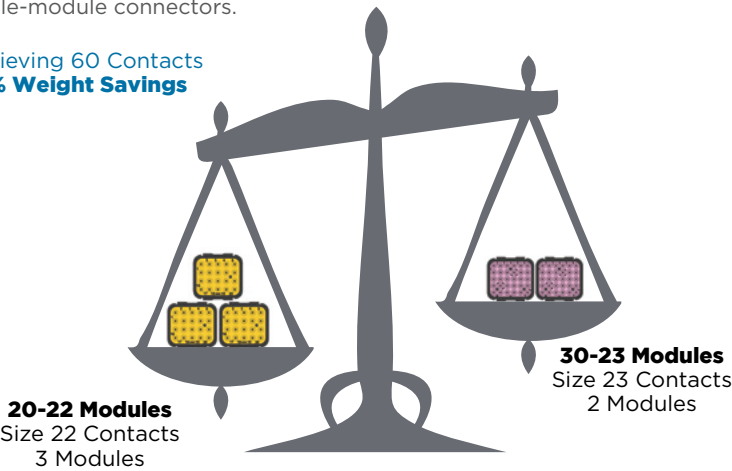
- High-density
- Reverse design
- Designed for EN4165, BACC65 and ARINC 809 shells
- Second moment of area of sleeve on a socket contact 8x stronger than on a pin
- 30% weight savings

DMC-M 30-23 Modules Presentation

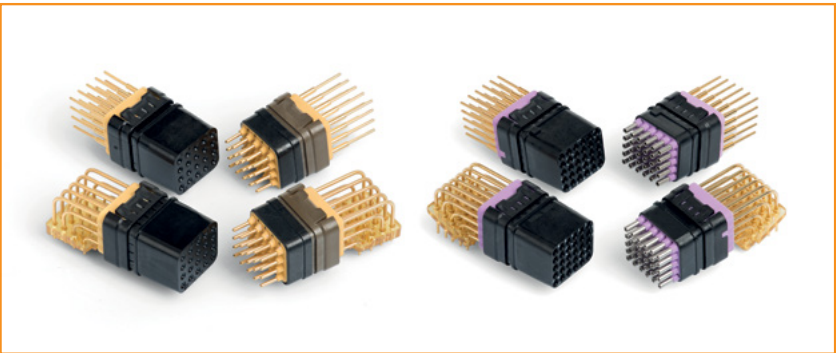
30-23 modules from TE Connectivity allow to achieve a higher density with a reverse design offering enhanced pin protection.

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

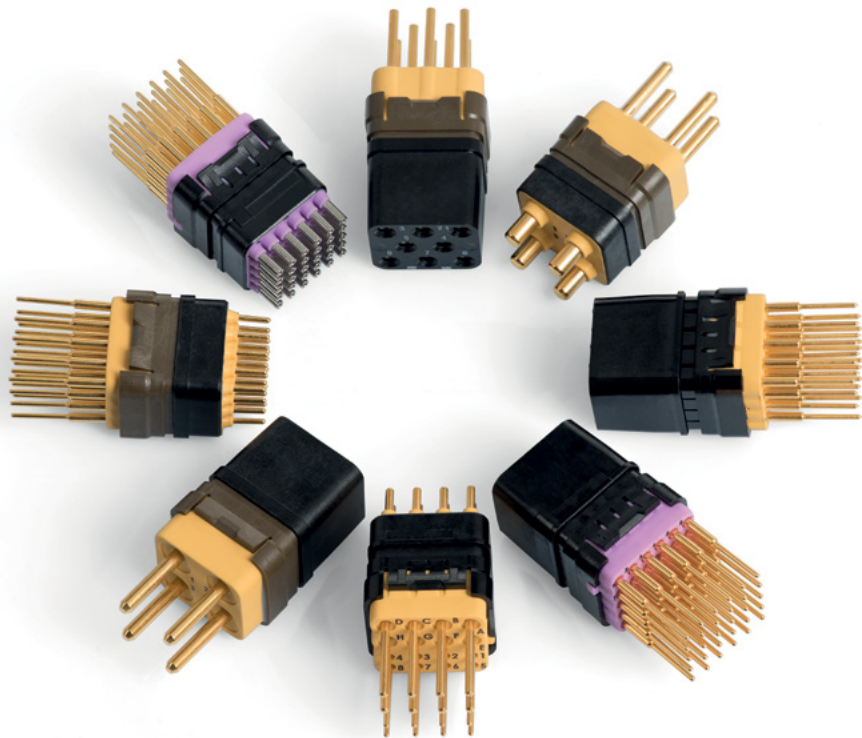
50% Higher Contact Density
Stronger Design • Equal Performance
Selected by EN4165 Users



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

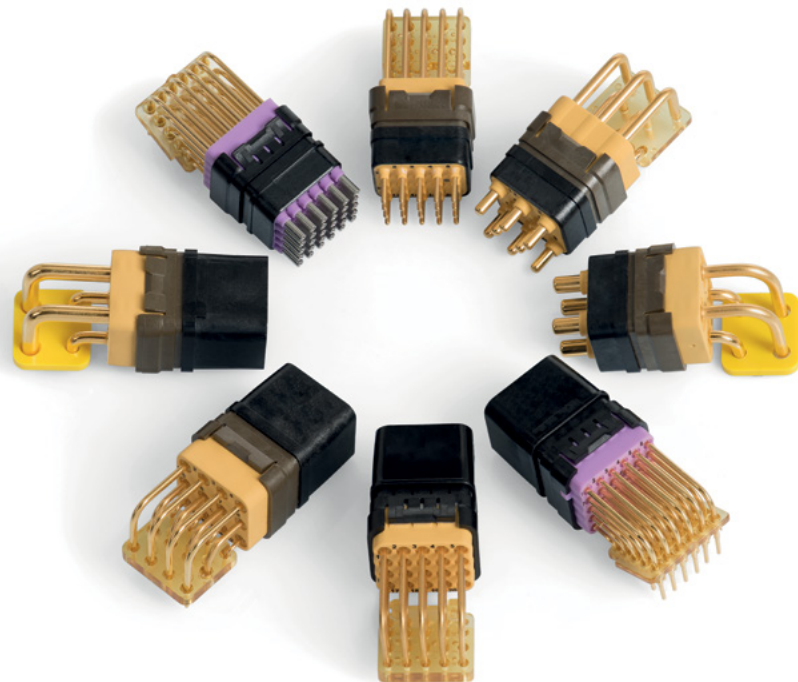
23	
22	
20	
16	
12	
99	size 16 and 22

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

Pin Contacts Modules				Socket Contacts Modules	
Arrangement	Configuration	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		
Arrange-ment	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°C 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

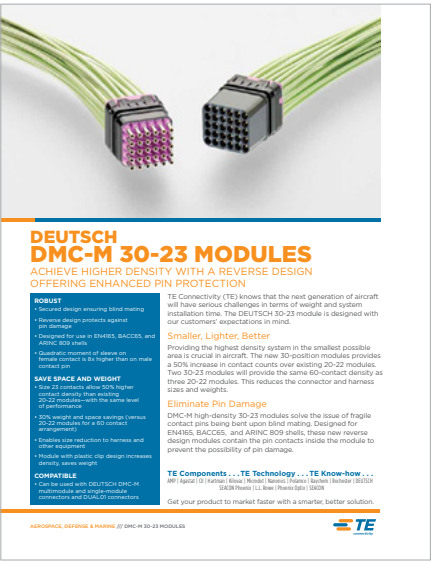
MULTICAVITY



SINGLE MODULE



30-23



LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

North America	+1 800 522 6752	Asia Pacific	+86 400 820 6015
North America (Toll)	+1 717 986 7777	Japan	044 844 8180
EMEA/South Africa	+800 0440 5100	Australia	+61 2 9554 2695
EMEA (Toll)	+31 73 624 6999	New Zealand	+64 (0) 9 634 4580
India (Toll-Free)	+800 440 5100		

www.te.com/dmcm

AMP, AGASTAT, CII, HARTMAN, KILOVAC, MICRODOT, NANONICS, POLAMCO, Raychem SEACOM, Rochester, DEUTSCH, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free, or any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice.

Consult TE for the latest dimensions and design specifications.

© 2019 TE Connectivity Ltd. family of companies All Rights Reserved.

2355378-1 10/19 Original