



DEUTSCH DMC-M 30-23 MODULES

ACHIEVE HIGHER DENSITY WITH A REVERSE DESIGN
OFFERING ENHANCED PIN PROTECTION

ROBUST

- Secured design ensuring blind mating
- Reverse design protects against pin damage
- Designed for use in EN4165, BACC65, and ARINC 809 shells
- Quadratic moment of sleeve on female contact is 8x higher than on male contact pin

SAVE SPACE AND WEIGHT

- Size 23 contacts allow 50% higher contact density than existing 20-22 modules—with the same level of performance
- 30% weight and space savings (versus 20-22 modules for a 60 contact arrangement)
- Enables size reduction to harness and other equipment
- Module with plastic clip design increases density, saves weight

COMPATIBLE

- Can be used with DEUTSCH DMC-M multimodule and single-module connectors and DUAL01 connectors

TE Connectivity (TE) knows that the next generation of aircraft will have serious challenges in terms of weight and system installation time. The DEUTSCH 30-23 module is designed with our customers' expectations in mind.

Smaller, Lighter, Better

Providing the highest density system in the smallest possible area is crucial in aircraft. The new 30-position modules provides a 50% increase in contact counts over existing 20-22 modules. Two 30-23 modules will provide the same 60-contact density as three 20-22 modules. This reduces the connector and harness sizes and weights.

Eliminate Pin Damage

DMC-M high-density 30-23 modules 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 module to prevent the possibility of pin damage.

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH
SEACON Phoenix | L.L. Rowe | Phoenix Optix | SEACON

Get your product to market faster with a smarter, better solution.

DEUTSCH DMC-M 30-23 MODULES

Reverse-Design High-Density Modules with New Pin Protection Design

MATERIALS

- **Modules:** Thermoplastic and fluorosilicone
- **Contacts:** Gold-plated copper alloy

ELECTRICAL

- **Withstanding Voltage:** 1300 V_{rms}, 50 Hz
- **Insulation Resistance:** ≥5000 MΩ
- **Maximum Current:** 5 A
- **Conductor Range:** 26, 24, and 22 AWG

APPLICATION TOOLING

- **Crimping Tool:** M22520/2-01
- **Positioner:**
Pin: M22520/2-09
Socket: M22520/2-06
- **Contact Insert/Extraction Tool:**
M81969/14-01
- **Module Insert/Extraction Tool:**
057-0289-00 A

APPLICATIONS

- In-flight entertainment and cabin systems
- High-speed internet access
- Lighting and window dimming
- Power distribution and control
- Electrical wiring and interconnect systems

PHYSICAL PROPERTIES

- **Operating Temperature:** -55°C to +175°C
- **Weight:**



Part Numbers

Module	Contacts	Contact Part No.	Contacts Supplied with Connector	TE Part No.
Socket	Pin	182-4043-23	Yes	DMC-MR 30-23 P*
			No	DMC-MR 30-23 A*
Plug	Socket	182-4042-23	Yes	DMC-MR 30-23 S*
			No	DMC-MR 30-23 B*

* = Keying (N (normal), A, B, C, D)

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Consult TE for the latest dimensions and design specifications.

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For over 20 years, aircraft manufacturers have specified DEUTSCH DMC-M connectors for their reliability and compact size. The line continues to evolve to meet new requirements for RoHS-compliant tinning on PCB contacts for higher densities, higher speeds, different contact finishes, and even greater weight and space savings.



20-22 Modules
Size 22 Contacts
3 Modules

30-23 Modules
Size 23 Contacts
2 Modules

Achieving 60 Contacts
30% Weight Savings

DMC-M 30-23 PCB Extension Coming Soon

