

# 3M

## 8-/10-Pair Cat. 5 Connection Module STG 2000

3M™ STG 2000 modules are the latest evolution of the STG range of IDC (Insulation Displacement Contact) connection modules that can be snapped onto 3M standard backmount frames (European 8-/10-pair, 16 mm or 14 mm pitch profile are available upon request).

This module offers Cat. 5 transmission performance as a standard. As a result this module can be used in any modern network and is fully compatible with various applications.

Wire termination and wire removal are easily operated with 3M™ Termination Tool SOR OC. Cables are managed from the rear and jumpers from the side. The base of the module offers cable and jumper strain relief facilities.

Straight IDC technology offers reliable and outstanding performance like multiple retermination, wire retention



3M™ 8-Pair Connection Module STG 2000



3M™ 10-Pair Connection Module STG 2000

and gas-tight connection. The module can connect solid copper conductors in a range of diameters from 26 AWG (0.4mm) to 20 AWG (0.8mm) with a maximum insulation sheath of 15 AWG (1.5mm).

Specific contacts for stranded wires are available upon request.

## FEATURES AND BENEFITS

Cat. 5 as a standard (100 MHz)	Multiple retermination possible with all kind of solid copper conductor gauges in the range of 26 AWG (0,4 mm) to 20 AWG (0,8 mm) (Special contacts for stranded wires 7 x 35 AWG (0,15 mm) are available upon request)
Cable with single wire copper conductors from 26 AWG (0,4 mm) to 20 AWG (0,8 mm) on cable and jumper side	Termination and removal of wires with the same tool
Maximum insulation diameter of 15 AWG (1,5 mm)	Reliable
Very compact pitch of 16 mm (14 mm pitch profile is available upon request)	Easy to use
Mono block circuit offering continuity	Can improve wire retention (straight IDC)
T-connection possible with 2 wires in one slot (2 wires of 24 AWG (0,5 mm) together or 1 wire of 24 AWG (0,5 mm) first and then 1 wire of 23 AWG (0,6 mm))	High rigidity and contact pressure on the conductor
100% Tin plating on the contact	Gas-tight connection area corrosion proof
IDC embodied contact in plastic casing	High-density installation thanks to 16 mm compact pitch (1240 pairs on a 2-meter vertical frame) 14 mm pitch profile is available upon request
Thickness of contact (0,8 mm)	Comprehensive range of protection circuits
Wiping resistant marking from 1 to 0 (10-pair modules) or 1 to 8 (8-pair modules) on jumper side	Compatible with all STG accessories

## SPECIFICATIONS

### TECHNICAL CHARACTERISTICS

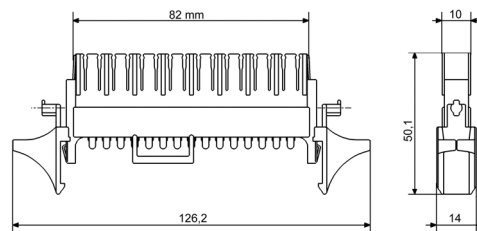
#### Electrical Performances

Contact resistance	1 mΩ
Leading through resistance (20 mV / 10 mA, 50 mm cable)	26 AWG (0,4 mm) < 20 mΩ
	24 AWG (0,5 mm) < 16 mΩ
	23 AWG (0,6 mm) < 12 mΩ
	20 AWG (0,8 mm) < 8 mΩ

Insulation resistance (500 V)	> 10 GΩ
Dielectric strength (50 Hz)	5 kV

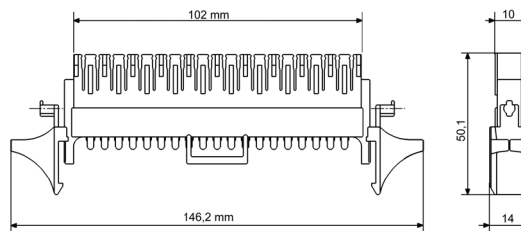
#### Materials

Plastic materials	Thermoplastic
Contact material	Bronze
Contact coating	100% Tin Plated
Flame retardant glass-filled polycarbonate	UL 94 V0
Color	Light Grey



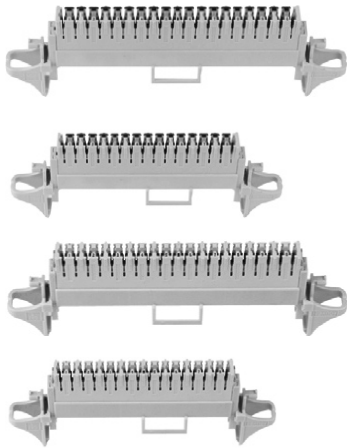
**Dimensions 8-pair modules**

(LxWxD): 4.968 x 0.055 x 1.972 in. (126,2 x 14,0 x 50,1 mm)



**Dimensions 10-pair modules**

(LxWxD): 5.598 x 0.055 x 1.972 in. (146,2 x 14,0 x 50,1 mm)



## ORDERING INFORMATION

## REF. NO.

3M™ Connection Module for 10-Pair STG2 U2 10	C252824A
3M™ Connection Module for 8-Pair STG2 U2 8	C252806A
3M™ Connection Module for 10-Pair STG2 U2 10 P with multi-pair protection facility	C252825A
3M™ Connection Module for 8-Pair STG2 U2 8 P with multi-pair protection facility	C252807A

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