



# High Reliability in Harsh Environments

## User-friendly design virtually prevents incorrect installations.

3M™ Dropwire Connectors MX2000 are in use worldwide to build and upgrade overhead networks with fully watertight connection technology. The highest fault rates occur in overhead networks, so it's vital to use a high reliability technology like MX2000 connectors.

MX2000 connectors are designed to operate reliably even under the harshest environmental conditions. The user-friendly design virtually prevents incorrect installations.

This product is suitable for distribution, protection and customer termination in overhead lines. This new generation design fits all existing networks and can accommodate a wide range of dropwire sizes.

No special tools are required to perform IDC terminations; a simple clockwise rotation of a screwdriver completes the dropwire termination. Both sides of this connector can be re-terminated multiple times with different conductor sizes.

A central disconnection area offers test ports on either side for multi-pair testing as well as disconnection and overvoltage protection. The overvoltage protected version drains currents up to 10kA per line.



3M™ SLiC™ Aerial Terminal 319 with 3M™ Blocks MX2000



3M™ Termination Module MX2000 P

# High reliability disconnection module overvoltage protection facility





### 3M™ Termination Modules MX2000

The very flexible built-in protection allows unprotected distribution points to be easily upgraded to protected ones.

The unique design of the MX2000 termination module allows the user to snap the module on both IEC 715 25 mm and 35 mm DIN profiles.

Grounding (20kA) is automatically completed through the mounting rail.

The MX2000 one-pair module offers very high flexibility compared to most multi-pair systems.



3M™ Termination Module MX2000

Features	Benefits
Drop wire side IDC connection	Enable tight connection with any size wire 18-24 AWG (>24/0.2-1/0.5, 7/0/2, 30/0.1)
No wire stripping	Improves productivity and lessens risk of wire damage
Snaps on to IEC715 mm and 35 mm DIN rails	Provides flexibility
Four access ports for testing	Suitable for testing both directions
Totally sealed connections	Provides maximum environmental protection
Can be added pair at a time	Provides first cost savings



**MX2000** disconnection module with grounding or without GDT, module meets Cat. 5 performance @ 100 MHz when installed with at least 3 mm between modules. MX2000 module is also compliant with VDSL 2.



**MX2000 P 250 V** protection module equipped with 250 V surge arrester.

### Ordering information

Model Number	Description	Minimum Order Qty.	Stock Number	UPC Number
MX2000	Disconnection module with protection facility	25 each	80-6113-2135-9	51115-22756-1
MX2000 P 250 V	Protection module	25 each	80-6113-2136-7	51115-22757-8
319-MX-DIN	10 Pair DIN Rail Assembly	10 each	80-6113-1963-5	05111521833

## 3M™ Termination Module MX2000 Specifications

Capacity	Single pair	Dimensions of the module
Cat. 5 applicable	@100MHz	Length 50 mm (1.97 in.) Height 36 mm (1.42 in.) Width 20 mm (.79 in.)
<b>Electrical Performances</b>		
Leading through resistance	<15mΩ	
Insulation resistance at 100V	>104 MΩ	
Dielectric strength	10KV 1,2/50μs 50Hz	
Surge arrester nominal value overvoltage	250V	
DC breakovervoltage	250v +/- 20%	
Impulse spark overvoltage (1Kv/μs)	<600V	
Impulse discharge current 8/20μs	10KA per Line	
Alternative discharge current 50Hz	10A per Line – 1 second – 10 cycles	
Fail safe response time	1A <50 sec 6A <12 sec 10A <8 sec	
<b>Materials</b>		
Plastic materials	Polycarbonate	
Contact material	Phosphor Bronze	
Contact plating	Tin	
Self extinguishing plastic	UL 94 V0	
<b>Drop wire termination side:</b>		
Screwdriver operated IDC		
Wire type	Steel, copper weld, copper cadmium, bronze drop wires	
Wire dimensions	AWG 26 to AWG 18 (0,4 mm to 1,1 mm) conductors. O.D. is 5 mm maximum	
<b>Cable termination side:</b>		
Tool-free IDC		
Wire type	Solid copper	
Wire dimensions	AWG 26 to AWG 20 (0,4 mm to 0,8 mm) conductors . O.D. is 1,8 mm maximum	
<b>Operating Temperature:</b>		
	Arrester - 25°C to + 70°C (-13°F to 158°F)	
<b>Mounting:</b>		
	Snap-on IEC 715 25 mm and 35 mm DIN profiles.	

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