

# Zone Enclosure for In-Ceiling Installations >

**The In-Ceiling Enclosure is an adaptable product, accommodating up to 48 copper ports or up to 96 fiber splices or MTP/MPO fibers and 1U of active equipment. The product is designed to support a Zone Cabling infrastructure in a drop/suspended ceiling environment.**

The Molex In-Ceiling Zone Enclosure is a robust, and versatile product designed to house passive and active network equipment in a conveniently located, drop/suspended ceiling space to service a local work area or zone.

The product sits flush in a 600mm x 600mm/2ft x 2ft drop/suspended ceiling grid. By utilizing an In-Ceiling Zone Enclosure, the end-user takes advantage of shorter and easier to move, add and change, cable runs to the zone work area, as well as facilitating connections to wireless access points (WAPs), LED lighting systems, security cameras and other PoE building devices located in that zone.

The locking outer door allows access to the pull-down network equipment platform. Hydraulic, slow-release dampers fitted to each side of the network equipment platform provides safe and easy access to the connectivity. The network equipment platform must be locked following equipment installation for safety.

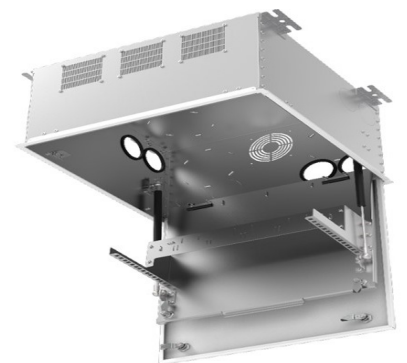
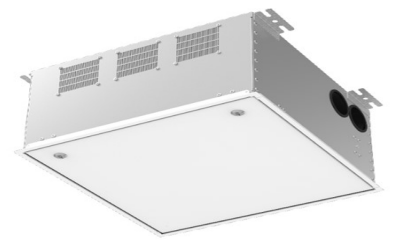
The network equipment platform features 19" equipment mounting rails, 5U capacity, and an integral cable management plate for the support of incoming and outgoing cable bundles. The Enclosure features eight cable entry knockouts for flexible cable routing. Cable tie securing points are provided on the roof and side walls of the enclosure for efficient cable routing and slack management. Sufficient space is provided for a fan unit (supplied separately) for temperature control of active equipment and three dust filters are included to protect the installation from debris.

The product accepts the Molex PowerCat range of unloaded copper patch panels and labor saving pre-terminated solid cable assemblies. The Molex 19" 1U fiber optic enclosures accommodating spliced and pre-terminated fiber harnesses or ModLink MTP/MPO cassettes are an ideal FTTZ (Fiber to the Zone) solution compatible with the Enclosure.

The In-Ceiling Zone Enclosure must be secured to the building structure using threaded steel rods and bolts.

**IMPORTANT NOTE:** Only trained installers should install this product. Improper installation of this product could result in damage to the enclosure, the network equipment housed inside or personal injury. Molex cannot be held responsible for damage to the enclosure, the network equipment or personal injury resulting from improper installation or misuse.

[www.molexces.com/solutions-overview/zone-cabling/](http://www.molexces.com/solutions-overview/zone-cabling/)



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## FEATURES AND ADVANTAGES

Designed specifically for 600mm x 600mm or 2ft x 2ft drop/suspended ceiling grid installations

The product accommodates up to 48 copper ports or up to 96 fiber splices or MTP/MPO fibers and active equipment

Cost-effective, robust, and versatile

Manufactured from Aluzinc with a steel network platform. The access door is finished in white powder coat

Lockable for network equipment security

Hydraulic, slow-release dampers fitted to each side of pull-down network equipment platform provides safe and easy access to the connectivity

The network equipment platform includes 19" equipment mounting rails, allowing 5U of capacity including an integral cable management plate for the support of incoming and outgoing cable bundles.

Multiple cable entry knockouts facilitate convenient cable entry and exit routes

Grommets are supplied for the protection of cables from sharp edges at the entry and exit points

Cable tie securing points are provided on the roof and side walls of the enclosure for efficient cable routing and slack management

Can accommodate a fan unit for efficient cooling. Fan unit supplied separately

Accepts the Molex PowerCat range of copper patch panels and fiber optic enclosure products

Labor saving Molex factory pre-terminated copper and fiber cable assemblies can be deployed to minimize downtime

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## APPLICATION

A zone cabling architecture provides flexibility and scalability to a network cabling design. Traditional structured cabling can mean many long cable runs from the telecommunications room (TR) to each work area. This installation method operates well for very small offices but in a high churn, constantly evolving open offices, education facilities, auditoria, or multi-tenancy workplaces, it can mean hundreds of lengthy and bulky copper cables that are difficult and expensive to reconfigure.

Many organizations are now rethinking their network cabling because they want to make the most of their assets by integrating multiple services, thereby maximizing flexibility, and achieving cost savings. These services include (but are not limited to): BAS (Building Automation Systems), Smart Lighting, Data and Voice networks, Wireless (Wi-Fi), Energy Management, visual information display and digital signage, sensors and actuators, HVAC controls, etc.

The zone design concept involves a pre-planned connection point in the horizontal cable so that copper or fiber runs are routed from the TR to Zone Enclosures which then support specific work areas or zones via a raised/ access floor or ceiling. Shorter copper or fiber lengths then run from the Zone Enclosure to each work area in that zone. This restricts any changes to the cabling section between the Zone Enclosure to TO, instead of the entire length of the horizontal cabling. In addition, the zone cabling approach allows the option of installing labor-saving pre-terminated and tested trunk cables (solid copper cable or fiber cable assemblies), reducing downtime.

This approach optimizes space, provides floor level MACs and enables easier location, management and maintenance of the network cabling system. Zoned spaces provide advantages to tenants and commercial property owners by reducing labor and material costs when reconfiguring office space and maximizes asset utilization.

## SPECIFICATIONS

### International Standards

ISO/IEC 11801-2  
ISO/IEC 11801-6  
ANSI/TIA 568-0.D  
ANSI-TIA 862.B

### Environmental Standards

RoHS compliant  
REACH compliant

### Physical

#### Material:

**Enclosure shell:** Aluzinc sheet uncoated – thickness: 1.5mm /1/16”

**Enclosure outer door:** Aluzinc sheet uncoated– thickness: 1.2mm /1/16”

**Enclosure outer door finish:** White powder coat

**Network equipment platform:** Galvanized sheet steel – thickness: 2mm/1/16”

#### Equipment Rails, cable management

**plate:** Galvanized sheet steel – thickness: 1.5mm /1/16”

#### Load capacity:

35kg / 77lbs 3oz

#### Dimensions

596mm (L) x 596mm(W)x 317mm(H)

23” (L) x 23” (W) x 12 1/2” (H)

Maximum depth allowance for panels/active equipment: 24cm/ 9 1/4”

#### Shipping Weight:

30kg / 66lbs 2oz

#### Accessories supplied:

1 x Ceiling rod drilling template  
1 x Key  
4 x Cable entry grommets  
3 x Filter plates

**Note:** The Enclosure requires 4 x M10 (3/8”) ceiling rods for installation. Ceiling rods are not supplied.

**Consult Molex Connected Enterprise Solutions Technical Support for installation guidance**

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## ORDERING INFORMATION

| Order No. | SAP No.   | Description               |
|-----------|-----------|---------------------------|
| CPT-00055 | 180080088 | In-Ceiling Zone Enclosure |



*Active equipment installation*



*Passive installation*



*Fiber ModLink MTP/MPO installation*



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| Order No.           | SAP No.   | Description                                   |
|---------------------|-----------|---|
| Compatible Products |           |   |
| Copper              |           |   |
| PID-00258           | 180810031 | Patch Panel 24P DataGate 1U Unloaded          |
| PID-00260           | 180810033 | Patch Panel 48P DataGate 2U Unloaded          |
| PID-00257           | 182960014 | Patch Panel 24P Keystone 1U Unloaded          |
| Fiber               |           |   |
| KSJ-00062-04        | 183010002 | DataGate Jack C6A Shielded 568A/B, Black      |
| KSJ-00079           | 183010070 | Keystone Jack C6A Shielded tool-less 568A/B   |
| KSJ-00033-04        | 181970160 | Keystone Jack C6 UTP 568A/B, Black            |
| KSJ-00005-04        | 181970057 | DataGate Blank, Black (Pk of 25)              |
| KSJ-00064-04        | 181170008 | Keystone Blank, Black (Pk of 10)              |
| Accessories         |           |   |
| 25.B016G            | 180320002 | Cable Management Panel 5 Vertical Rings 1U    |
| 25.A029G            | 180990013 | Cable Tidy Panel (with brush) 1U              |
| 25.C001G            | 180330001 | Cable Management Panel Metal Rings with cover |
| RFR-00201*          | 180370259 | Specification grade 24-48 Fiber Enclosure 1U  |
| RFR-00311-BK*       | 180370287 | Multi-function Fiber Enclosure Gen II         |
| RAA-F-1W            | 181030122 | Fan unit 230V                                 |
| CMA-00113           | 180150012 | Spare key (1)                                 |
| CMA-00114           | 180140065 | Cable entry grommets (Pk of 4)                |
| CMA-00115           | 180140066 | Spare fabric filters (Pk of 3)                |



DataGate Patch Panels Unloaded



DataGate Jack UTP and C6A



PowerCat C6A Pre-Terminated Cable Assemblies



Cable Management Panel



Multi-Function Fiber Enclosure



Specification Grade Fiber Enclosure



ModLink MTP/MPO cables



Fan Unit



Cable entry grommets

\*For fiber adapter plates compatible with above-mentioned fiber enclosures and other fiber installation accessory part no's contact Molex or refer to <https://www.molexces.com/products/fiber/>

For factory pre-terminated copper cable assemblies contact Molex or refer to <https://www.molexces.com/product/pcpt6asxxxxx-powercat-6a-shielded-pre-terminated-cable-assemblies/>

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