


## Features

- 213 mm (8.4 in.) connector height with front-facing jumper and test fields
- 4 inch intervertical spacing when installed on 8 inch verticals - provides ample space for placing cross-connect (jumper) wires
- Slide access protector module field with self-latching design
- Front and rear snap-through fanning strips
-  Listed

## MPC® Mainframe Connector (QCM486) 100-Pair Connector

The mainframe connector is a miniature, main distributing frame (MDF), high-density connector for use on the vertical side of main distributing frames or on protector frames.

The MPC® Mainframe Connector terminates 100 outside plant pairs and provides voltage or voltage and current protection for the central office personnel, wiring and equipment. It consists of a heavy gauge metal frame with an integral mounting bracket, flame-retardant plastic bases for the protector module, cross-connect (jumper) and test fields. The cross-connect and test fields are easily accessed from the front of the block to minimize installation and maintenance time.

The MPC® Mainframe Connector may be ordered with either insulation displacement connectors (IDCs) or wire-wrap terminations on the cross-connect (jumper) side. It is also available with 22 or 24 AWG (0.64 or 0.50 mm) stub cable in various lengths or stubless if desired.

The protector modules are installed on the side of the MPC® Mainframe Connector. Bourns® QMP-series solid-state and gas tube protector modules are available for the MPC® Mainframe Connector. The protector modules may be ordered separately or pre-installed in the connector's detent position ready for cutover with full protection assured.

A full range of installation and test accessories are available to support the MPC® Mainframe Connector.

### Specifications

|                                    |  |
|------------------------------------|--|
| Plastic Materials                  |  |
| Main Body .....                    | Polycarbonate, beige, UL 94V-0   |
| Metal Parts                        |  |
| Mounting Hardware .....            | Steel, hard bright tin-plated  |
| Current-Carrying Components .....  | High conductive copper or copper alloys, hard bright tin-plated  |
| Outside Plant Cable Stub           |  |
| Description .....                  | 22 or 24 AWG (0.64 or 0.5 mm),<br>100-pair solid PVC or flame-retardant polyolefin or dual-layer solid CMR;<br>UL-listed and FT4 CSA certified polyolefin/PVC insulation, Alplast sheath<br>(Alvyn type) |
| Termination .....                  | Wire-wrap  |
| Grounding .....                    | Through main chassis to main distribution frame  |
| Resistance .....                   | <1 milliohm change over product life   |
| Cross-Connect (Jumper) Connections |  |
| Termination .....                  | Wire-wrap or insulation displacement connections   |
| Contact Resistance .....           | < 1 milliohm change over product life  |
| Dielectric Strength .....          | 1000 VDC   |
| Insulation Resistance .....        | > 500 megohms  |
| Environmental Conditions .....     | For indoor use, 10 to 95 % RH  |
| Temperature Characteristics .....  | Operating +32 ° to +122 °F (0 ° to 50 °C)  |
| Frame Vertical Capacities          |  |
| Height 2.13 m (7.0 ft.) .....      | 600 pairs  |
| Height 2.45 m (8.0 ft.) .....      | 900 pairs  |
| Height 2.76 m (9.0 ft.) .....      | 1100 pairs   |
| Height 3.51 m (11.5 ft.) .....     | 1400 pairs   |

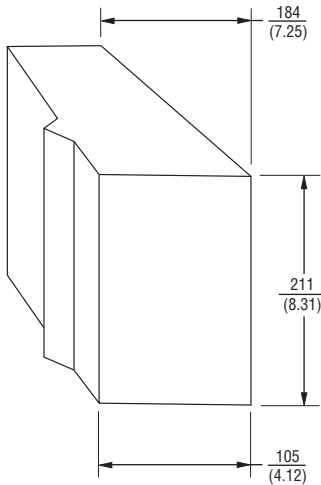
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# MPC® Mainframe Connector (QCM486) 100-Pair Connector

# BOURNS®

## Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

## Packaging Specifications

| Std. Pack       | Stub Length<br>m (ft.) | Size (H x W x D)<br>mm (in.)   | Weight<br>kg (lb.) |
|-----------------|------------------------|--------------------------------|--------------------|
| <b>Stubless</b> |                        |                                |                    |
| 4               | 0                      | 410 x 410 x 310 (16 x 16 x 12) | 36.4 (80)          |
| <b>Stubbed</b>  |                        |                                |                    |
| 1               | 9.1 (30)               | 690 x 840 x 150 (27 x 33 x 6)  | 14.6 (32)          |
| 1               | 15.2 (50)              | 690 x 840 x 150 (27 x 33 x 6)  | 18.6 (41)          |
| 1               | 30.5 (100)             | 810 x 940 x 200 (32 x 37 x 8)  | 28.6 (63)          |

*Note: Additional stub length options may be available. Please contact your nearest Bourns Representative for assistance.*

## How To Order

Model \_\_\_\_\_ **QCM486 X1 nn X nnn xxxx**

Cross-connect Field \_\_\_\_\_  
 A1 = Insulation Displacement Connections  
 B1 = Wire-wrap

Stub \_\_\_\_\_  
 00 = Stubless  
 22 = 22 AWG  
 24 = 24 AWG

Stub Entry \_\_\_\_\_  
 0 = Stubless  
 B = Bottom  
 T = Top

Stub Length \_\_\_\_\_  
 000 = Stubless  
 030 = 9.1 m (30 ft.)  
 050 = 15.2 m (50 ft.)  
 100 = 30.5 m (100 ft.)

Protector Modules \_\_\_\_\_  
 000 = No Protector Modules  
 11A5 = (100) QMP11A5 Solid-state 300 V  
 12A4P = (100) QMP12A4P Solid-state 300 V with PTC Sneak Current Protection  
 6A5 = (100) QMP6A5 Gas 400 V  
 6A4 = (100) QMP6A4 Gas 400 V, 350 mA Heat Coils

Examples: QCM486A100000011A5 = IDC, stubless with 11A5 protector modules (100 QMP11A5).

QCM486B124B0506A4 = Wire-wrap, 24 AWG, bottom stub, 50 foot, with 6A4 protector modules (100 QMP6A4).

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### How to Order MPC® Connector Accessories

| Product Code | Part Number | Description   |
|--------------|-------------|---|
| QTH38B       | A0276558    | Termination Tool, IDC – used to terminate and trim wires in insulation displacement cross-connect terminals   |
| 303-1001     | A0310189    | Single Pair Test Cord – equipped with a plug for the test field and two alligator clips for connecting to test equipment, 1.75 ft. long   |
| QCM31A       | A0259585    | 100-Pair Test Connector – used for testing all pairs through the test field. Equipped with a test head and 15 ft. cable terminated with four (4) 25-pair Cinch-Jones connectors |
| QGF4A        | A0260364    | Module Guard – red plastic locking wedge to lock and flag protector modules in the MPC protector field, use 1 per module  |
| NS19478L1    | A0207604    | Test Field Guard – red plastic guard to flag and prevent accidental contact with test points in the MPC test field, use 1 per pair  |
| QGF22A       | QGF22A      | Jumper Field Guard, IDC – red plastic guard to flag and prevent accidental contact with jumper field terminals, use 2 per pair  |
| 545-1137     | A0321718    | Jumper Field Guard, Wire-wrap – red plastic guard to flag and prevent accidental contact with jumper field terminals, use 2 per pair  |
| QAA32B       | A0316451    | Module Testing Adapter – allows 4-pin protector modules to be tested using standard 5-pin test equipment  |
| QMP-EXT-01   | QMP-EXT-01  | Module Extraction Tool – tool used to assist with extraction of a single module from the protector field  |
| QSBC1A       | A0273233    | Designation Strip – self-adhesive numbering strip to facilitate location of pair numbers on the jumper field  |

*Note: Order by Part Number.*

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