

TECHNICAL BROCHURE Preconnectorized Enclosures Termination Boxes & Outlets

BMU200 Optical Distribution Box Indoor/Outdoor



Applications

The BMU 200 is perfect to be used in FTTH networks, as its shape and compact design allows to take the maximum profit from its interior and to save space where it is located, in both a wall or an outdoor pole, or an indoor; in cabinets, walls, in the base of the building or in a teleco room. It fits perfectly in constructions with a few dwellings, base stations, campus, commercial centers, business parks and other applications in which users require a big bandwidth for wireless coverage, private networks or data or video bandwidth services.

BMU 200 is a fibre optic distribution box, provided of mechanical protection, that protects it from the external agents and simplifies the derivation and distribution of the network. It allows to connect the operator's fibre network access to the distribution cable that arrives to each user. It can be used for splices or routing, connecting up to 40 lines. The box complies the impermeability requirement IP54.



Capacity up to 48 fusions or 24 mechanical splices in one unique box.



2 entries for multifibre cable (allows to make a loop) and 2 reserved entries.



Easy installation of the Pre-connected cables



An effective gripping for drop cables.

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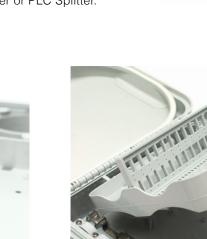
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BMU200 Optical Distribution Box Indoor/Outdoor

Features

- Folding sole box with supports for splices, splitters, adapter modules, splitter module and cassette for cable organization.
- Wall or pole mounting.
- Lockable door in one side.
- Impermeable box IP54.
- Door sealing with rubber and protected ports.
- Accessories for cable holding.
- UV resistant.
- Isolated box with grounding.
- Capacity up to 24 adapters SC type (SC, LC, E2000)
- Capacity up to 48 fusions or 24 mechanical splices in one unique box.
- 3 cable ports: 24 entries for drop cable, 2 entries for multifibre cable (allows to make a loop) and 2 reserved entries.
- Supplied with adapters, and boxes equipped with: KeyQuick® Mechanical Splice, KeyQuick® Pigtails, KeyQuick® Splitter or PLC Splitter.







Capacity up to 24 adapters SC type

Lockable door

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Unique folding tray



Removable tray

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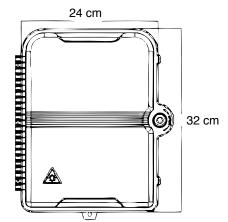
Termination Boxes & Outlets

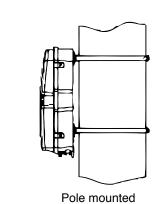
BMU200 Optical Distribution Box Indoor/Outdoor

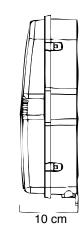
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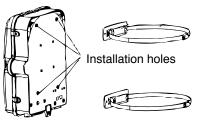
Specifications

| • | |
|------------------------------------|------------------------------------|
| Attribute | Value |
| Dimensions (High x long x wide) | 32 x 24 x 10 cm |
| Adapter capacity | 24 (SC shape) |
| Splice capacity | 48 fusions or 24 Mechanical Splice |
| Multifibre cable por (allows loop) | 2 x 15 mm (12 mm Rubber glands) |
| Drop cable ports | 24 x 5 mm (Rubber glands) |
| Reserved port | 2 x 18 mm |
| Material | PC/ABS |
| Color | Grey |
| Mounting type | Wall / Pole |
| Impermeability protection | IP54 |
| Temperature resistance | -40 °C up to 60 °C |
| Inflammability index | UL 94V-0 |
| UV Resistance | 1000 MΩ |
| Closing | Key lock |
| Ground isolation | EPDM |
| Sealing ring material | Yes |
| | |









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Wall mounted

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TECHNICAL BROCHURE Preconnectorized Enclosures Termination Boxes & Outlets

BMU200 Optical Distribution Box Indoor/Outdoor

BMU200 Equipment

BMU200 can be pre-equipped, including different pre-installed components in the box, so it is ready to be connected to accelerate this process. It is a modular and simple system configured following the concept of few components joined without expensive and specialized tools and that does not require more than basic knowledge to install.

There are a few possible configurations to create a fibre infrastructure at the maximum level, with preconnectorized KeyQuick® Pîgtails, KeyQuick® Splitters and KeyQuick® Mechanical Splices. It is also available with PLC Splitters.

A concept that allows to optimize the installation time, minimizing the human mistake probabilities and assuring that installed fibres give a perfect performance, getting a lower attenuation because of the use of less connectors or splices, and reducing considerably the installation time due to the already partially made connections.

The box preconnectorized with KeyQuick® Splitters is always provided with an SC APC adapter. Connecting a Visual Fault Locator is the easiest and fastest way to check the connection between one point an another, to be able to see any failure in the connection to the KeyQuick® Splitter by using a red light, that allows the installer to remake the connection quickly in the field.



BMU200 equipped with Splitter Module 1x16.



Equipped tray with 24 KeyQuick® Mechanical Pigtails.



Combinations

| Equipment | Quantity |
|---------------------------|----------------------------|
| KeyQuick® Pigtail | 24 x (SC or LC, PC or APC) |
| KeyQuick® Splitter SC APC | 1x4, 1x8, 1x12, 1x16, 1x24 |
| PLC Splitter SC APC | 1x4, 1x8, 1x12, 1x16, 1x24 |
| KeyFibre® Splitter Module | 1x2, 1x4, 1x8, 1x16 |

BMU200 equipped with PLC Splitter 1x24



Equipped tray with KeyQuick® Spliter 1x24.

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BMU200 Optical Distribution Box Indoor/Outdoor

Splitter Module for BMU200.

The Modular Optical Splitter, or Splitter Module, is a passive component used in PON Networks (Passive Optical Networks) that divides the optical signal coming from one fiber to a few others.



The use of splitters in an optical network provides the point-to-multipoint architecture, that is one fibre coming from the operator that is subdivided for uncountable subscribers in different locations.



They are composed by one incoming fibre and N outgoing fibres, which divide the optical signal power proportionally between them. It is suitable to operate in the three communication windows of the passive optical network standards: 1310 nm, 1490 nm and 1550 nm. The insertion loss and the uniformity remain stable between 1260 and 1650 nm.



Values are certified in Laboratory. The LGX modular optical splitters are specifically developed for plugand-play application and provided with SC APC adapters with transparent dust cap, increasing installation's speed and organization.



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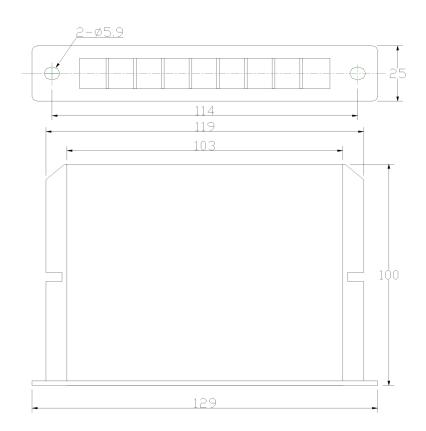


TECHNICAL BROCHURE Preconnectorized Enclosures Termination Boxes & Outlets

BMU200 Optical Distribution Box Indoor/Outdoor

Fibre

| Installation environment | Indoor or Outdoor (Location in adequate box) | | | |
|--------------------------|--|-----------------------------|--|--|
| Compatibility | BMU100 Multi-function Distribution Box. Indoor and Outdoor. 4 | | | |
| | | IP54. Up to 12 SC adapters. | | |
| | BMU200 Multi-function Distribution Box. Indoor and Outdoor. 4 | | | |
| | | IP54. Up to 24 SC adapters. | | |
| Warranty | 12 meses | | | |
| Advantages | Provided with SC APC adapters with transparent dust cap. Low insertion loss and excellent uniformity. | | | |
| | | | | |
| | • High reliability. | | | |



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TECHNICAL BROCHURE Preconnectorized Enclosures Termination Boxes & Outlets

BMU200 Optical Distribution Box Indoor/Outdoor

Specifications

| Attribute | | Units | Values | | | |
|-------------------|---------|-------|-------------------------------|-----|------|------|
| In / Out | | | 1x2 | 1x4 | 1x8 | 1x16 |
| Operative waveler | ngth | nm | 1260 ~ 1650 | | | |
| Insertion Loss: | Typical | dB | 3,6 | 7,0 | 10,3 | 13,6 |
| | Máx. | dB | 4,3 | 7,4 | 10,7 | 13,9 |
| Uniformity (Max.) | | dB | 0,5 | 0,8 | 0,8 | 1,4 |
| PDL (Max.) | | dB | 0,2 | 0,3 | 0,3 | 0,3 |
| TDL (Max.) | | dB | 0,5 | | | |
| Return Loss | | dB | ≥55 (APC) | | | |
| Directivity | | dB | ≥55 | | | |
| Operative Temper | ature | °C | -40 ~ +85 | | | |
| Dimension | | mm | 100 x 129 x 25 100 x 129 x 50 | | | |

* The specifications above do not include connector. For APC connectors, add 0.3 dB of insertion loss.

| Connector type | SC APC |
|------------------|----------------------------|
| Attenuation (dB) | |
| Typical | 0,15 |
| Máx | 0,30 |
| Return Loss (dB) | > 60 |
| Features | Push-Pull Connector |
| | Plastic body |
| | Ceramic ferrule (zirconia) |
| | • SM Fibre |

| Type of fibre | "Bend resistant" G657A incoming and outgoing fibre |
|------------------|---|
| Applicable rules | Telcordia GR-1209 (Optical Passive Components) |
| | Telcordia GR-1221 (Optical Passive Components Reliability Requirements) |
| | IEC 61753-1 (Fibre Optic Interconnection Devices and Passive Components |
| | Performance Standard) |

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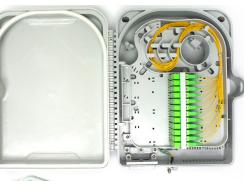
BMU200 Optical Distribution Box Indoor/Outdoor

| Ordering BMU200 | Information: | | | |
|--------------------|--|--|--|--|
| PN | Description | | | |
| BMU200 | Optical Distribution Box Multi Function | | | |
| | Indoor/Outdoor, 48 fibres, IP54. Up to 24 | | | |
| | adapters in SC shape. | | | |
| | Valid to alocate PLC splitters 1x8 or 1x16 | | | |
| | Accessories included | | | |
| | • 1 key for the door lock | | | |
| | 24 protection sleeves for fusion | | | |
| | • 8 bridles | | | |
| | 24 cable drop fixations | | | |
| | • 3 screws | | | |
| | • 3 wads | | | |
| | * The Pole mounted kit sold separately | | | |

BMU200 equipped with KeyQuick® Pigtail

| | , |
|-----------|---|
| BMU23012A | Equipped with 12 preconnectorized |
| | KeyQuick® Pigtail SC APC |
| BMU23024A | Equipped with 24 preconnectorized |
| | KeyQuick® Pigtail SC APC |
| BMU23012B | Equipped with 12 preconnectorized |
| | KeyQuick® Pigtail SC PC |
| BMU23024B | Equipped with 24 preconnectorized |
| | KeyQuick® Pigtail SC PC |
| BMU23012C | Equipped with 12 preconnectorized |
| | KeyQuick® Pigtail LC APC |
| BMU23024C | Equipped with 24 preconnectorized |
| | KeyQuick® Pigtail LC APC |
| BMU23012D | Equipped with 12 preconnectorized |
| | KeyQuick® Pigtail LC PC |
| BMU23024D | Equipped with 24 preconnectorized |
| | KeyQuick® Pigtail LC PC |
| | |







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Description

Preconnectorized Enclosures Termination Boxes & Outlets

BMU200 Optical Distribution Box Indoor/Outdoor

Ordering Information:

ΡN

BMU200 equipped with KeyQuick® Splitter

| • | •• | - | • | |
|-----------|-------------|------------|-------------------|---|
| BMU241S04 | 1 KeyQuick® | Splitter 1 | SC APC x 4 MS201 | |
| BMU241S08 | 1 KeyQuick® | Splitter 1 | SC APC x 8 MS201 | |
| BMU241S12 | 1 KeyQuick® | Splitter 1 | SC APC x 12 MS201 | |
| BMU241S16 | 1 KeyQuick® | Splitter 1 | SC APC x 16 MS201 | |
| BMU241S24 | 1 KeyQuick® | Splitter 1 | SC APC x 24 MS201 | _ |
| | | | | |



BMU200 equipped with PLC Splitter SC APC

| BMU251S04A | 1 PLC Splitter 1x4 SC APC | |
|------------|----------------------------|--|
| BMU251S08A | 1 PLC Splitter 1x8 SC APC | |
| BMU251S12A | 1 PLC Splitter 1x12 SC APC | |
| BMU251S16A | 1 PLC Splitter 1x16 SC APC | |
| BMU251S24A | 1 PLC Splitter 1x24 SC APC | |

KeyFibre® Splitter Module SC APC for BMU200

| - | |
|---------------------------------------|--|
| KeyFibre® Splitter Module 1x2 SC APC | |
| Transparent Dust Cap | |
| KeyFibre® Splitter Module 1x4 SC APC | |
| Transparent Dust Cap | |
| KeyFibre® Splitter Module 1x8 SC APC | |
| Transparent Dust Cap | |
| KeyFibre® Splitter Module 1x16 SC APC | |
| Transparent Dust Cap | |
| | |

* Other configurations available under request.

* The BMU200 and the KeyFibre® Splitter Module are sold separately.



Shipping Information:

| BMU200 | Individual Packaging | 10 Pack Units |
|------------|----------------------|---------------------|
| Dimensions | 34 x 30 x 12,5 cm | 61 x 36,5 x 62,5 cm |
| Weight | 1,7 kg | 18,3 kg |

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