# WAVEPACE® FWO-X1

## Universal wall outlet for the FTTH subscriber connection



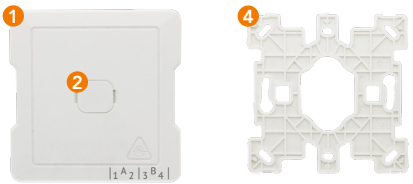
**10418800**
FWO-X1-empty

- Multifunctional junction box with 4 ports LC or 2 ports SC for fiber connection in network level 5
- Extremly compact dimensions 80 x 80 x 29 mm (W x H x D)
- Installation options for cavity wall box (60 mm mounting dimension), wall mounting, DIN rails and as click-on for DIY installation without access to the possibly pre-assembled fiber optics
- Versatile cable entries for all installation cases, from all sides as well as from behind
- 4 adapter positions possible (from freely accessible patch cord connection to fully secured)
- Single port access possible through individual housing cutouts
- Stable and pleasing housing made of white polycarbonate
- Large and free access area due to contour design for safe handling access
- Hinged splice tray with molded universal splice protector holder for crimp, heat shrink or Micro Smouv (Mini HS) splice protectors
- Integration option of reflector elements, also inline for remote service
- Stable bearing of the splice cassette to avoid pressure on the connectors during assembly
- Cable and wire entry opening also allows LC and SC connectors to be fed through
- Available versions: Empty housing, pre-terminated with adapters and/or pigtails and with in-house "pizza box" style cable on roll-off carton
- All pre-assembled adapters provide spring-loaded protection hood (shutter)

| Parameter | FWO-X1-empty | FWO-X1-SC/APC-2 | FWO-X1-LC/APC-1 | FWO-X1-LC/APC-2 | FWO-X1-SC/APC-2-2F | FWO-X1-LC/APC-1-2F | FWO-X1-LC/APC-2-4F |
|---|---|---|---|---|---|---|---|
| **Application** | – | Splice/patch | | | | | |
| **Interface** | – | 2 x SC/APC simplex adapters | 1 x LC/APC duplex adapters | 2 x LC/APC duplex adapters | 2 x SC/APC simplex adapters & 2 x pigtails | 1 x LC/APC duplex adapter & 2 x pigtails | 2 x LC/APC-duplex adapter & 4x Pigtails |
| **Dimensions (H x W x D) [mm]** | 80 x 80 x 29 | | | | | | |
| **Mounting options** | On a cavity wall box (60 mm mounting dimension), wall mounting, DIN rails (horizontal & vertical) and as click-on for DIY installation with pre-assembled fiber optics | | | | | | |
| **Material wall outlet** | Plastic material ABS (LSOH, RoHS, REACH compliant, UI-94V0) | | | | | | |
| **Color** | White | | | | | | |
| **Cable feed** | From the bottom up to 5 mm, up to 4 mm from the top, left and right side and generally from the back | | | | | | |
| **Adapter quality** | – | Adapter with ceramic sleeve and spring-loaded protection hood for dust an laser protection (shutter) | | | | | |
| **Connector quality** | – | | | | Grade B, Level 1 classification according DIN EN IEC 61753-1:2019-10 with ceramic ferrule | | |
| **Insertion loss IL [dB max.]** | – | | | | 0,25 | | |
| **Return loss RL [dB min.]** | – | | | | 65 | | |
| **Safety** | Cover of the FWO-X1 can additionally be secured with a screw | | | | | | |
| **Special features** | For self assembly with adapters and pigtails | – | | | | | |
| **Order No.** | **10418800** | **10418822** | **10418820** | **10418825** | **10418823** | **10418821** | **10418824** |

### Construction of the individual components

**1** Self-locking cover
**2** Screw cover, self locking
**3** Locking screw
**4** Click-on frame
**5** Hinged splice tray, mounted
**6** Basic housing







**Further options can be found on the next page.**

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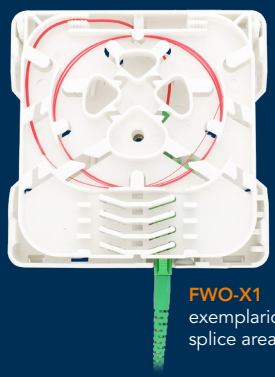
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*Subject to technical changes.* *Version 1.5.1*

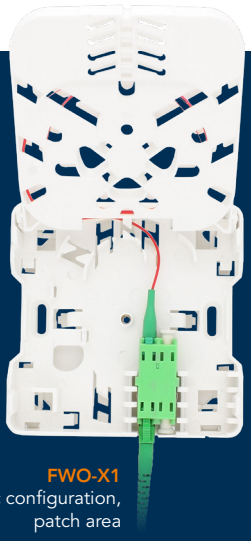
# WAVEPACE® FWO-X1

## Universal wall outlet for the FTTH subscriber connection

| Parameter | FWO-X1-xx-SC/APC-4F | FWO-X1-xx-LC/APC-4F | FWO-X1-xx-LC/APC-4F-VF |
|---|---|---|---|
| **Application** | Splice/patch | | |
| **Interface** | 2 x SC/APC simplex adapters & pre-assembled cable (4 fibers) | 2 x LC/APC duplex adapters & pre-assembled cable (4 fibers) | 1 x LC/APC duplex adapter with external shutter & 2 LC/APC connectors terminated on pre-installed cable (4 fibers) |
| **Dimensions (H x W x D) [mm]** | 80 x 80 x 29 | | |
| **Mounting options** | On a cavity wall box (60 mm mounting dimension), wall mounting, DIN rails (horizontal & vertical) and as click-on for DIY installation with pre-assembled fiber optics | | |
| **Material wall outlet** | Plastic material ABS (LSOH, RoHS, REACH compliant, UI-94V0) | | |
| **Color** | White | | |
| **Cable feed** | From the bottom up to 5 mm, up to 4 mm from the top, left and right side and generally from the back | | |
| **Adapter quality** | Adapter with ceramic sleeve and spring-loaded protection hood for dust an laser protection (shutter) | | |
| **Connector quality** | Grade B, Level 1 classification according DIN EN IEC 61753-1:2019-10 with ceramic ferrule | | |
| **Insertion loss IL [dB max.]** | 0,25 | | |
| **Return loss RL [dB min.]** | 65 | | |
| **Safety** | Cover of the FWO-X1 can additionally be secured with a screw | | |
| **Special features** | In-house cable Ø 2,65 mm using G.657.A2 fiber, fire protection class B2ca-s1a, d0, a1; cable lenght options see below<br>Non-used 2 fibers are stored in the splice tray | – | Non-used 2 fibers (blue, yellow) with 900 µm primary coating, approximately 80 cm routed and stored in splice cassette, adapters equipped with external dust and laser shutters |
| **Order No.** | **15 m 10418811**<br>**30 m 10418813**<br>**50 m 10418815** | **15 m 10418801**<br>**20 m 10418802**<br>**30 m 10418803**<br>**50 m 10418805**<br>**80 m 10418808**<br>**100 m 10418809** | **15 m 10418831**<br>**20 m 10418832**<br>**30 m 10418833**<br>**50 m 10418835** |



**FWO-X1**
exemplaric configuration, splice area

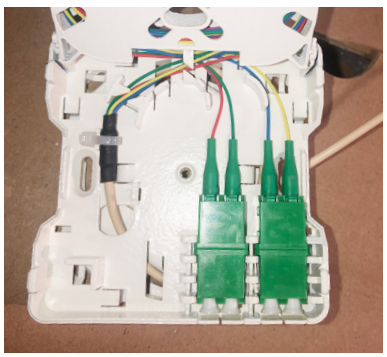


**FWO-X1**
exemplaric configuration, patch area

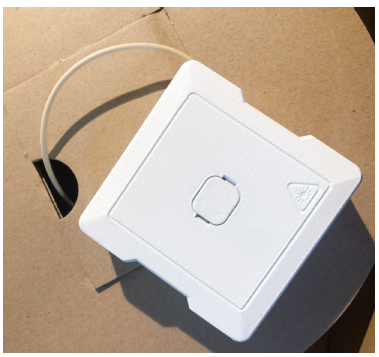


**Access restriction**
Option to install the connector inside the outlet to avoid unautorized access

## Further product versions



**Special configuration**
in accordance with the specifications of the German subsidized fiber optic rollout



**Pre-assembled "Pizza box"**
With in-house cable on roll-off carton, available in differnet cable lenghts (please refer to the table)

*Subject to technical changes. Version 1.5.1*

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