

THE MOST FLEXIBLE FTU IN THE INDUSTRY.

7971X / 7972X SERIES | FTU passive units | various pigtails



FTTH NETWORKS

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Version 2.0

OUR UNIQUE CLICK-ON INTERFACE

7971X / 7972X SERIES | FTU passive units | UK Version

INTRODUCTION

The DKT philosophy of separating the basic FTU and Gateway functionality from the Service Box, creates a neutral demarcation point between the in-home network and the operator's network. The small form factor of both FTU and gateway, combined with ease of installation due to its click-on interface, makes our solution extremely flexible, with optimized handling and efficiency.

HOW IT WORKS

DKT's FTUs consist of a neutral base/FTU in which the fiber can be mounted, connected and terminated. The active Gateway is designed as a click-on interface with the possibility for end-user activation.

The solution is built to allow the customer to perform the service activation. The combined solution for FTU and gateway services are formed in an extremely compact form factor, 88 x 88 x 65 mm, making it viewed by the customer as just another outlet.

The FTU is ideal as a 2-box solution in combination with our gateways and 3rd party routers.

Passive FTU with protective cover appearing as any other outlet.

1



Dust cover can easily be removed by the end customer.

2



The FTU is ready to be connected to an active CPE.

3



The desired CPE is connected to the FTU by simply attaching it via click-on interface.

4



HIGH LEVEL SPECIFICATION

7971X / 7972X SERIES | FTU passive units

PASSIVE FIBER TERMINATION UNIT, SMALL FORM FACTOR OUTLET.

The device is used to fasten and lock 1 - 2 fibres, organized with built in splice holders. DKT Active CPEs can be clicked on to the Fiber Termination Unit, alternatively 3rd party ONT can easily be connected via standard SC/PC and SC/APC adapters.

USAGE MODELS:

ACTIVE OPTICAL OUTLET

The FTU is used for fiber management, and an active device can be clicked on top.

PASSIVE OPTICAL OUTLET

If 3rd party active equipment is used, then the unit can be used as Passive Optical Outlet. The protection cover of the device can be used to secure patch cables for external connectivity, and the base plate is used for fiber management.

LARGE VERSION FOR THICKER/ STIFFER CABLES

The new version of the FTU is larger, making more room in the base unit for thicker and stiffer cables to be mounted.

Pigtail (applicable for 79718/720 only)

| | |
|----------------------------|------------------|
| Fiber type | G.657A1 Pigtails |
| Fiber length [m] | 0.75 |
| Fiber diameter [µm] | 900 |
| Fiber type | G.657 Type A |
| Fiber color | White |
| Connector type | SC/APC or SC/PC |



STANDART VERSION
15 x 88 x 88 mm

Item no.
7971X/7972X

| Parameter | STANDART VERSION 7971X / 7972X | LARGE VERSION 79712 |
|--|--------------------------------------|----------------------------------|
| Type | SC/APC or SC/PC, (green or/and blue) | SC/UPC + SC/APC (blue and green) |
| Insertion loss [dB] | ≤ 0.20 | |
| Interchangeability [dB] | ≤ 0.20 | |
| Repeatability [dB] | ≤ 0.20 | |
| Mechanical durability | 1000 Cycles | |
| Operating temperatures [°C] | -40 - +80 | |
| Sleeves | Zirconia sleeves | |
| Support of fibers | 2 | |
| Dimensions including cover [mm] | 23 x 88 x 88 | 23 x 88 x 115 |
| Base dimensions [mm] | 15 x 88 x 88 | 15 x 88 x 115 |
| Housing color | White | |



LARGE VERSION
15 x 88 x 115 mm

Item no.
79712

DO-IT-YOURSELF-KIT FTTH

The Do-It-Yourself-kit FTTH offers a practical self-install possibility for the end user or an enormous saving of time for the technician. Splicing within the apartment is obsolete, from now on we are able to take on high-quality installing for you! Besides the cable lengths listed on the next page, we can also provide individual lengths.



| Parameter | FTTH-DIY-Kit 05-4F4 | FTTH-DIY-Kit 10-4F4 | FTTH-DIY-Kit 20-4F4 | FTTH-DIY-Kit 25-4F4 | FTTH-DIY-Kit 35-4F4 | FTTH-DIY-Kit 40-4F4 | FTTH-DIY-Kit 50-4F4 | FTTH-DIY-Kit 70-4F4 | FTTH-DIY-Kit 80-4F4 |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | ACOME G.657 A2, 4 mm 4FO | | | | | | | | |
| Description | Do-It-Yourself-kit FTTH | | | | | | | | |
| Fiber type | Acome 4 mm | | | | | | | | |
| Fiber length | 5 m | 10 m | 20 m | 25 m | 35 m | 40 m | 50 m | 70 m | 80 m |
| Number of fibers | 4 | | | | | | | | |
| Fiber entrance | hole in the back | | | | | | | | |
| Screws/plugs | No | | | | | | | | |
| Wallplate | No | | | | | | | | |
| Item No. | 79770 | 79771 | 79772 | 79773 | 79774 | 79775 | 79776 | 79777 | 79778 |

| Parameter | FTTH-DIY-Kit 05-4F2 | FTTH-DIY-Kit 10-4F2 | FTTH-DIY-Kit 20-4F2 | FTTH-DIY-Kit 25-4F2 | FTTH-DIY-Kit 35-4F2 | FTTH-DIY-Kit 40-4F2 | FTTH-DIY-Kit 50-4F2 | FTTH-DIY-Kit 60-4F2 | FTTH-DIY-Kit 70-4F2 | FTTH-DIY-Kit 80-4F2 |
|-------------------------|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | 1) PRYSMIAN G.657 A2, 2 mm 4FO | | | | | | | | | |
| Description | Do-It-Yourself-kit FTTH | | | | | | | | | |
| Fiber type | 2) Prysmian, 2 mm | | | | | | | | | |
| Fiber length | 5 m | 10 m | 20 m | 25 m | 35 m | 40 m | 50 m | 60 m | 70 m | 80 m |
| Number of fibers | 2 | | 4 | | | | | | | |
| Fiber entrance | Hole in the back | | | | | | | | | |
| Screws/plugs | No | | | | | | | | | |
| Wallplate | No | | | | | | | | | |
| Item No. | 79780 | 79781 | 79782 | 79783 | 79784 | 79785 | 79786 | 79787 | 79788 | 79789 |

| Parameter | FTTH-DIY-Kit 90-4F2 | FTTH-DIY-Kit 100-4F2 | FTTH-DIY-Kit 05-4F4C | FTTH-DIY-Kit 10-4F4C | FTTH-DIY-Kit 20-4F4C | FTTH-DIY-Kit 25-4F4C | FTTH-DIY-Kit 50-4F4C | FTTH-DIY-Kit 25-4F4B | FTTH-DIY-Kit 50-4F4B | FTTH-DIY-Kit 80-4F4B | |
|-------------------------|-----------------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|----------------------|----|
| | PRYSMIAN G.657 A2, 2 mm 4FO | | ACOME G.657 A2, 4 mm 4FO | | | | | | | 1) | |
| Description | Do-It-Yourself-kit FTTH | | Do-It-Yourself-kit FTTH var C | | | | | Do-It-Yourself-kit FTTH var B | | | |
| Fiber type | Prysmian, 2 mm | | Acome 4 mm | | | | | | | | 2) |
| Fiber length | 90 m | 100 m | 5 m | 10 m | 20 m | 25 m | 50 m | 25 m | 50 m | 80 m | |
| Number of fibers | 4 | | | | | | | | | 2 | |
| Fiber entrance | Hole in the back | | Cut out on the side | | | | | | | | |
| Screws/plugs | No | | Yes | | | | | No | | | |
| Wallplate | No | | Yes | | | | | No | | | |
| Item No. | 79790 | 79791 | 79850 | 79851 | 79852 | 79853 | 79856 | 79863 | 79866 | 79868 | |

1) PRYSMIAN G.657 A2, 4 mm 2FO

2) PRYSMIAN, 4 mm

FTU WITH OTDR REFLECTOR

79709 | FTU including OTDR Reflector pigtail

| Small form factors FTU | | Technical index [nm] | OTDR Reflector pigtail |
|---|-------------------|----------------------|--|
| Working band [nm] | Transmission band | - | 1260 - 1625 |
| | Reflection band | - | 1644.5 - 1655.5 |
| Transmission band [dB] | Insertion loss | 1260 - 1360 | ≤ 1.4 |
| | | 1460 - 1600 | ≤ 1.4 |
| | | 1600 - 1625 | ≤ 3.4 |
| | Return loss | 1260 - 1360 | > 35 |
| | | 1460 - 1580 | > 35 |
| | | 1580 - 1620 | > 30 |
| Reflection band [dB] | Insertion loss | 1644.5 - 1655.5 | > 21 |
| | Return loss | 1644.5 - 1655.5 | ≤ 1.0 |
| Polarization dependent loss [dB] | | 1260 - 1600 | ≤ 0.4 |
| Ripple [dB] | | 1644.5 - 1655.5 | ≤ 0.6 |
| TDL [dB] | | 1260 - 1600 | ≤ 0.5 |
| Maximum Optical power [dBm] | | - | 27 |
| Plug times [times] | | - | > 500 |
| Connector type | | - | SC/UPC |
| Pigtail type | | - | G657A1 0.9 Loose tube 2.0 SC parts |
| Übertragungsrichtung | | - | unidirectional |
| Operating temperature [°C] | | - | -20 - 60 |
| Working humidity [%] | | - | 5 - 95 |
| Storage temperature [°C] | | - | -40 - 85 |
| Storage humidity [%] | | - | 5 - 95 |
| Item No. | | | 79709 |

OTDR REFLECTOR PIGTAIL

The 1650 nm mirror reflects all wavelengths between 1645 nm and 1655 nm.

Due to its small insertion loss in the transmission wavelength range and high reflectance in the reflection wavelength range, it is an ideal optical end for FTTx network link monitoring.

This pigtail enables a high reflectivity on the PON side without affecting communication.

The OTDR pigtail is included in DKT FTU product with standart pigtail for SC/APC.

