DKT

THE MOST FLEXIBLE FTU

7970X / 7971X / 7972X SERIES
FTU passive units | In various configurations and sizes

FTTH NETWORKS

PART OF OUR
FTTH CLICK-ON INTERFACE SOLUTION

– Easy click-on combination between our FTUs and Gateways –

OUR UNIQUE FTTH CLICK-ON INTERFACE SOLUTION

7970X / 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 with a click-on interface and the possibility for end-user activation, which allows 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 1/2

7970X / 7971X / 7972X SERIES | FTU passive units | UK Version

PRODUCT OVERVIEW
"FTUs 797XX series"

Parameter	FTTH-0F-SMALL-PC/APC	FTTH-0F-BASE-TRAY	FTTH-0F-BASE-PC/APC	FTTH-0F-BASE-PC/APC-2	FTTH-2F-BASE-PC/APC-2	FTTH-2F-BASE-CC-NOR	FTTH-1F-BASE-SC/APC
Fiber tray included	No	Yes, large version	Yes, regular-sized version				
Slack storage capacity in fiber tray	–	approx. 30 cm of patch cord Ø 3 mm	approx. 150 cm of pigtails, not suitable for storing patch cords				
Dimensions (W x H x D) [mm]	88 x 88 x –/15/23[1]	88 x 115 x 15/23/35[1]	88 x 88 x 15/23/35[1]				
Housing color	white						
Adapter type	SC/APC & SC/PC	SC/APC & SC/UPC	SC/APC & SC/PC			2 x SC/APC	
Insertion loss [dB]	≤ 0.20						
Interchangeability [dB]	≤ 0.20						
Repeatability [dB]	≤ 0.20						
Mechanical durability	≥ 1000 cycles						
Operating temperature range [°C]	-40 – +80						
Sleeve material	Zirconia						
Pigtails	–				SC/APC & SC/PC	2 x SC/APC	1 x SC/APC
Fiber type	–				G.657.A1		
Fiber length [mm]	–				750		
Fiber diameter [Qm]	–				900		
Fiber color	–				white		
Item No.	**79717**	**79712**	**79715**	**79716**	**79718**	**79720**	**79708**

[1] Depth: Fiber tray / Fiber tray including adapter module / Fiber tray including adapter module and protective cover

Pigtail (applicable for 79708/79718/79720 only)	
Fiber type	G.657AI 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

HIGH LEVEL SPECIFICATION 2/2

7970X / 7971X / 7972X SERIES | FTU passive units | UK Version

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.

STANDARD VERSION
15 x 88 x 88 mm

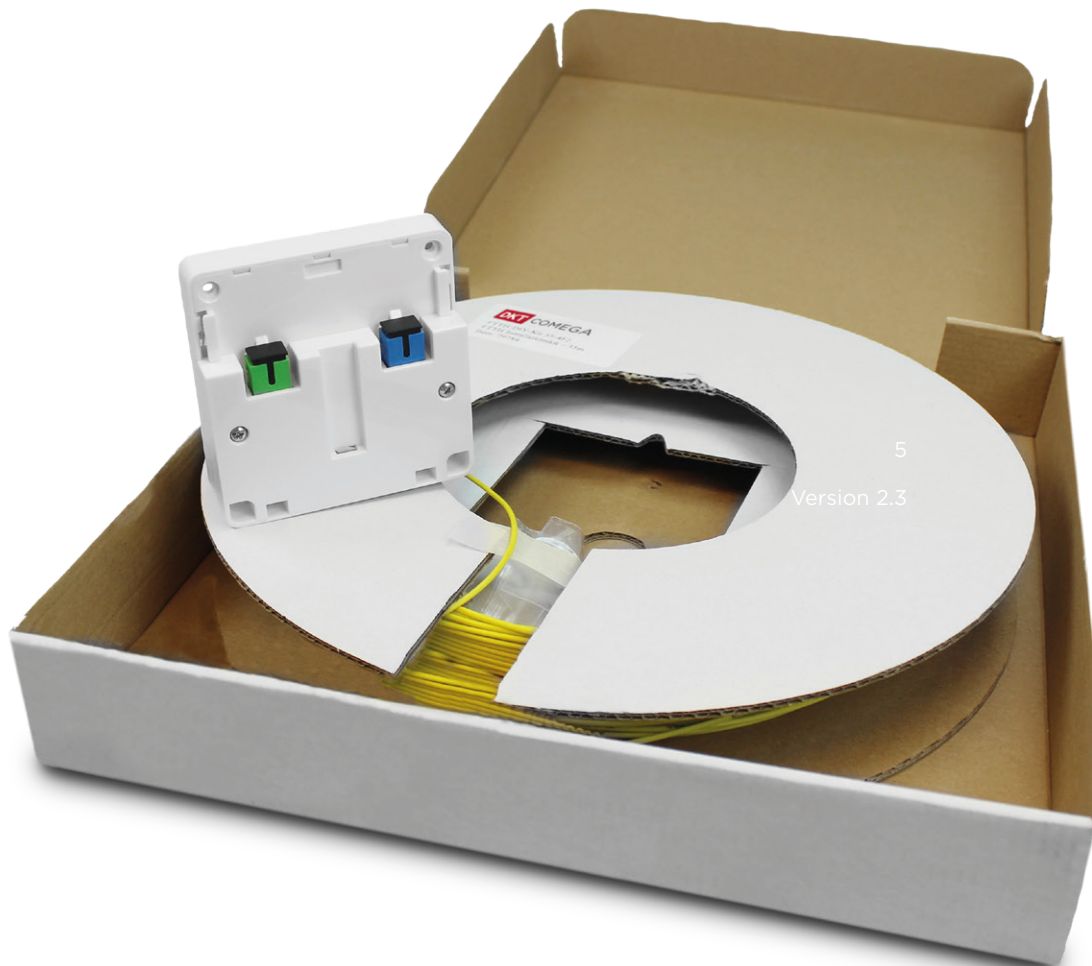**Item no.
7971X/7972X**

LARGE VERSION
15 x 88 x 115 mm

**Item no.
79712**

DO-IT-YOURSELF-KIT FTTH

7977X / 7978X / 7979X SERIES

INTRODUCTION

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.

Paramater	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

Paramater	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

Paramater	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

"DO-IT-YOURSELF-KIT FTTH"

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Version 2.3

FTU WITH OTDR REFLECTON

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
		1620 – 1625	> 20
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 standard pigtail for SC/APC.

"FTU | OTDR Reflector pigtail"

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Version 2.3