

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.

