Data sheet

OFFEL
Sistemi di ricezione TV e SAT

Fibre optic KIT

FO series

art. 19-005
FO-KIT LNB+TX SAT-DTT

This kit is composed by:
- an LNB;
- a SAT-DTT optical transmitter;
- a coaxial cable with N connector, 1 m long, to connect the two devices;
- an external 20V 1.2A power supply.

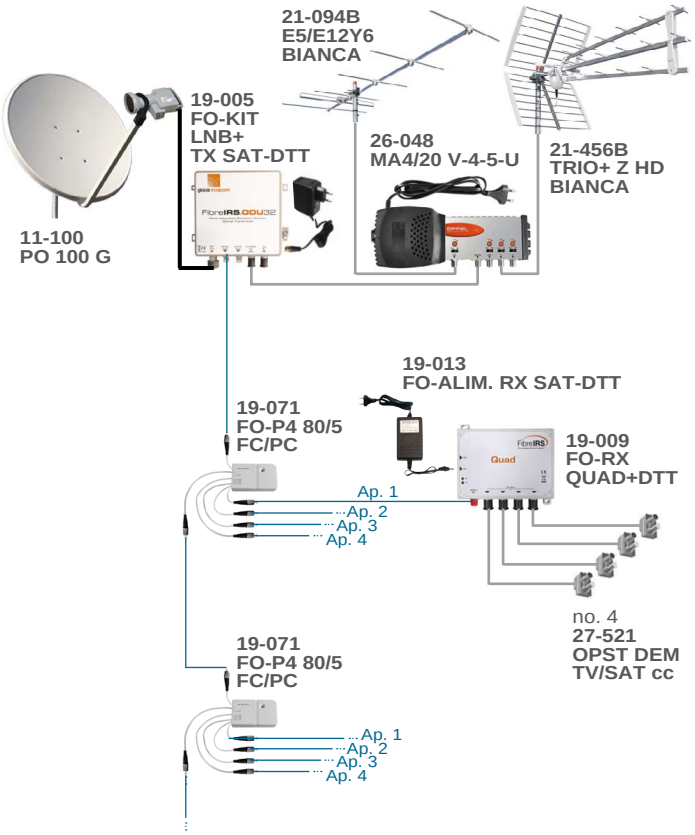
The LNB allows the reception of the 4 polarizations of a satellite, converting them in the frequencies from 950 MHz to 5,45 GHz, creating a single work band.

The SAT-DTT optical transmitter has five connectors:
- two FC/PC optical output connectors, on which there are the signals transformed by electric in optical, in the second work window (1310 nm);
- a connector F, for mixing DTT signals;
- an F connector, for power supply;
- an N connector, for the connection with the LNB.

The kit allows to connect up to 64 optical receivers, at a maximum distance of 10 km from the dish. Each of these receivers will be considered as a source of TV-SAT signals that can be distributed to a maximum of 4 STB per optical receiver or to a multiswitch cascade, in the case of more complex systems.

Code		19-005
Item		**FO-KIT LNB+TX SAT-DTT**
No. of TV-SAT optical outputs		2
No. TV inputs		1
No. SAT inputs		1
Optical output connector		FC/PC
TV input connector		screw F type
SAT input connector		N type
Power supply connector		screw F type
SAT output frequency range	GHz	0,95 ÷ 3,0 (V) ; 3,4 ÷ 5,45 (H)
FM TV output frequency range	MHz	88 ÷ 108
DAB TV output frequency range	MHz	174 ÷ 240
DTT TV output frequency range	MHz	470 ÷ 862
LNB output frequency range	GHz	10,75 ÷ 12,75
SAT output impedance	Ω	50
TV output impedance	Ω	75
SAT return loss	dB	9
TV return loss	dB	10
TV input level	dBµV	67 min ; 97 max
DTT max level	dBµV	80 (for no. 6 MUX)
Noise figure max	dB	10
TV attenuation	dB	15
Optical output level	dBm	6,5 max ; 7,5 min
Wavelength	nm	1310 ±20
SAT gain	dB	62 ÷ 72 ±2
SAT gain variation	dB	4 (V) ; 7 (H)
TV gain variation	dB	4
Supply voltage	Vdc	12 ÷ 20
LNB supply voltage	Vdc	6,2 ±0,2
Cross polarization isolation	dB	25
TV max remote power supply	mA	11,5 ±0,5 < 80
Max current consumption @ 20 V	mA	< 500 (LNB included)
Type of fibre optic for wiring		single mode
Standard of fibre optic for wiring		G657A
Fibre class		1M
Feed LNB diameter	mm	40
LNB dimensions (LxWxH)	mm	173x68x108
Optical TX dimensions (LxWxH)	mm	140x30x145
Packaging dimensions (LxWxH)	mm	300x120x280
Packaging weight	Kg	2
Fit temperature	°C	-10 ÷ +50
Storage temperature	°C	-30 ÷ +60
Compliant to		EN 50083-2:2012 EN60728-11:2005 EN60825-1:2007
EMC legislation		2004/108/EEC
Low voltage legislation		2006/95/EC

Example of application



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