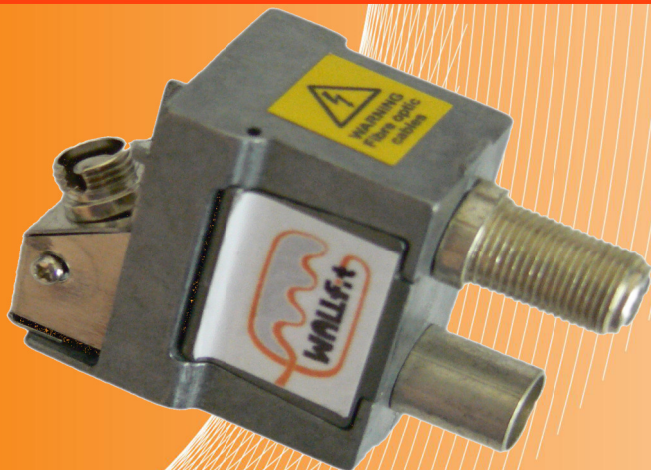


Wallfit Optical / Electric TV-SAT Socket



The WALLfit "optical socket" is the final, and most important part of our fiber optic TV-SAT distribution system, and represents the natural evolution of traditional coaxial copper cables.

Its high linearity, low attenuation and outstanding electromagnetic interference shielding characteristics make it an extremely important device when designing digital and analog TV-SAT systems.

The optical input receptacle of the **WALLfit-Socket®** is a single mode FC type connector making it compatible with the best optical systems available in the market. When used with our **Fast-fit®**, innovative and exclusive FC connector, installation becomes quick and cost effective. The Fast-fit connector offers a "splicer free" method of connectorisation, saving both time and money. The entire installation becomes simpler and more reliable.

The energy saving properties (low power consumption) of the Wallfit Socket make it perfect for an environmentally friendly "green" TV-SAT distribution system. Due to these properties, when connected to our TX85 optical transmitter, it is ideal to connect up to 64 sockets, located up to hundreds of meters apart. By adding our O-P16 optical amplifier it is possible to increase this to 500 sockets.

Optical Fiber Input FC or FC/APC Connector

The WALLfit Optical Socket is universal and can be fitted into the electrical outlets of the most well known manufacturers in the world, simply by using a "quick fit" adapter plate.

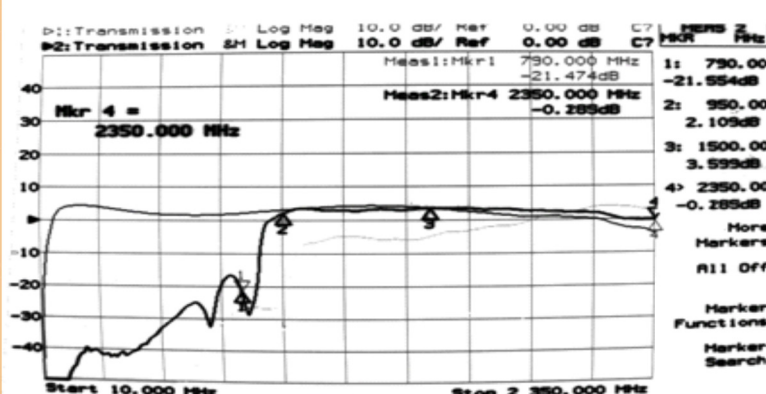
The low power consumption enables the socket to be powered by any decoder SAT.

Aerial TV Signal Output IEC Connector

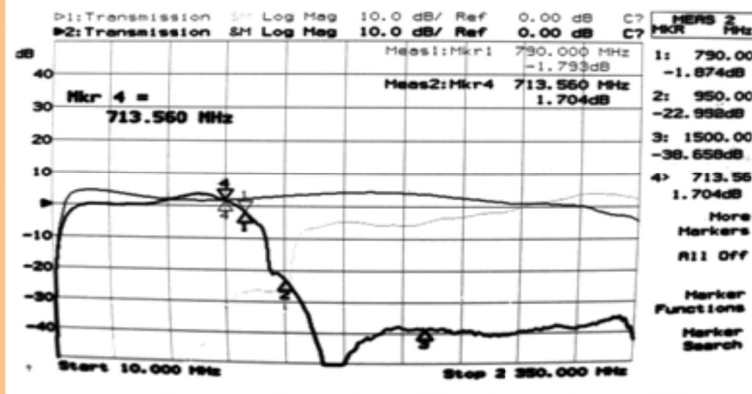
SAT Signal Output F Connector



Frequency response SAT



Frequency response TV



Optical & RF Technical data

| | min. | tipico | unità |
|---|--|-------------|-------|
| Optical receiver type | PIN Photodiode | | |
| Optical input connector | FC or FC/APC single mode receptacle (both pigtails can be adopted) | | |
| Optical input wavelength | | 1310 – 1550 | nm |
| Freq bandwidth | | 47-2400 | Mhz |
| Nominal optical input power | -12 | -5 | dbm |
| Damage input level | | +2 | dbm |
| Supply voltage from SAT connector | 18 | 12 | V |
| Supply current | 55 | 60 | mA |
| Size | 22 x 56 x 35 | | mm |
| Weight | 100 | | gr |
| Aerial TV coax connector type | IEC | | |
| SAT TV coax connector type | F | | |
| RF bandwidth | 47-2400 | | Mhz |
| Demiscelazione RF - IEC connector TV aerial band: | 47-800 | | Mhz |
| RF flatness - F connector SAT band | 950-2400 | | Mhz |
| | ± 1,5 | | db |
| Equivalent link gain connected to TX85 as optical transmitter | | 14*Aopt | db |
| Link budget with TX55 and Wallfit Socket | 15 | 20 | db |
| Link budget with TX85 and Wallfit Socket | 18 | 23 | db |

Recommended Levels

Recommended feeding levels with Optical Transmitter MATV / SMATV mod. TX85:

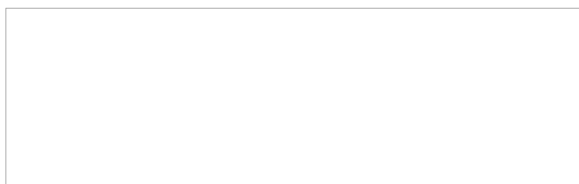
- a) digital signal input (DVB-T / T2) TV: from 80 to 90 dBuV
- b) digital signal input (DVB-S / S2) SAT: from 75 to 85 dbuV

NB: Wallfit Socket is compatibile with any optical transmitter available in today's market.

Satellite Input Signal at optical transmitter Wallfit TX85 placed at the headend 30 TP SAT 47– 2400 Mhz 80-85 dBuV

| | min. | typical | unit |
|--|------|---------|------|
| Output level SAT from Wallfit socket after 5db optical atten. | 75 | 80 | dBuV |
| Output level SAT from Wallfit socket after 10db optical atten. | 70 | 75 | dBuV |
| Output level SAT from Wallfit socket after 15db optical atten. | 65 | 70 | dBuV |

Authorized Distributor stamp



Notes:

