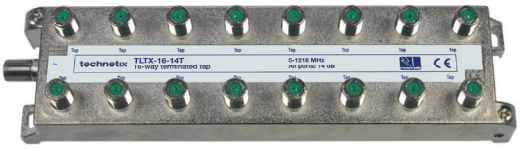
TLTX 16-way 1.2GHz taps

- **5-1218MHz**
- **Compact 16-way tap terminated**
- **Modem Safe™ - unique surge protection and intermodulation reduction solution**
- **High port-to-port isolation performance**
- **Robust zinc die-cast housing with NiSn plating**
- **Exceeds EN Class A screening requirements**



Overview

Products within the TLTX range offer excellent value for money. They excel both in electrical and mechanical performance. Though designed for use within indoor environments, they are also specified for use within street-side plant. With all tap ports vertically connected, they are easy to install with a tough, CPD resistant, compact housing.

All F-connector contacts meet the SCTE standards (ANSI SCTE 02 2006). The BeCu material of the inner spring has been designed for connecting coax cables with an inner core of 0.65 to 1.10 mm. It retains this elasticity and provides effective clamping force even when varying thicknesses of inner conductor are inserted in succession.

The intermodulation performance, which is an crucial factor in high level return path signals, has been greatly improved through a newly developed ferrite and specially designed circuits. The high frequency shielding exceeds Class A requirements (EN-50083-2:2012) over the whole frequency range from 5 MHz to 1218 MHz. The taps have an epoxy sealed, tongue and groove back cover to prevent ingress. The TLTX series is rated IP67.

Modem Safe™

Modem Safe is a highly effective surge protection solution for sensitive network and in-home CPE. Based on passive circuits, the technology does not rely on discharge tubes, extending the lifespan of the solution.

- Blocks high and low voltage pulses and unwanted DC voltages
- Prevents internal ferrites within the product from becoming magnetised (avoiding deterioration in the performance of CPE)
- Drives fewer reported faults
- Reduces truck rolls & Improves customer service

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Specifications

Port(s)	Frequency (MHz)	Note Ref	14dB	17dB	21dB	24dB	27dB
Parameter: Insertion Loss (MAX)							
I/P to TAP	5 - 10	TYP	14.0	17.2	21.1	24.2	27.0
	10 – 40	-	15.0	18.0	22.0	25.0	28.0
	40 – 550	-	15.0	18.0	22.0	25.0	28.0
	550 – 862	-	15.6	18.3	22.3	25.3	28.3
	862 – 1006	-	16.0	18.5	22.5	25.5	28.5
	1006 – 1218	-	16.6	19.0	23.0	26.0	29.0
Parameter: Return Loss (MIN)							
All Ports	5 - 10	TYP	23.0	20.2	24.4	20.7	22.1
	10 – 40	-	18	18	18	18	18
	40 – 1218	3	18	18	18	18	18
Parameter: Isolation (MIN)							
TAP to TAP	5 - 10	TYP	31.3	35.4	45.1	51.8	50.2
	10 – 15	-	25	25	25	25	25
	15 – 40	-	30	30	30	30	30
	40 – 862	3	30	30	30	30	30
	862 - 1218	-	22	22	22	22	22

Remarks

1	IEEE-C62.14, Combination Wave, Category B1 (rise time 1,2 µS/ fall time 50 µS). No degradation allowed.
2	IEC 62153-7 § 5.5v
3	F > 40 MHz -1.5 dB/oct (Not exceeding 14dB)
4	IEC 60728-4 2007
5	Performance measured at 22°C
TYP	Typical Values

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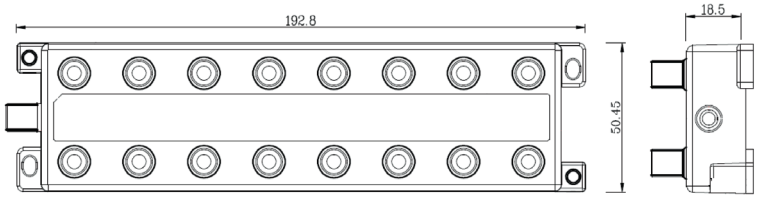
Mechanical & environmental specifications

Port sealing	Environmental (epoxy) seal	All F-ports
Connectors	Input, output & tap ports	F-female
Materials	Housing & back Lid	NiSn plated zinc die-cast
	F-spring	Silver plated beryllium copper
WEEE (2002/96/EC)	Complete product	Marked with wheelie bin logo
RoHS (2002/95/EC)	Complete product	Complies to RoHS
Ingress protection	BS EN 60529 1992	IP68



Ordering information

Item name	Article number	Description
TLTX-16-14T	19009825	INDOOR TAP 8-WAY 14DB TERMINATED 1.2GHZ
TLTX-16-17T	19009826	INDOOR TAP 8-WAY 17DB TERMINATED 1.2GHZ
TLTX-16-21T	19009827	INDOOR TAP 8-WAY 21DB TERMINATED 1.2GHZ
TLTX-16-24T	19009828	INDOOR TAP 8-WAY 24DB TERMINATED 1.2GHZ
TLTX-16-27T	19009829	INDOOR TAP 8-WAY 27DB TERMINATED 1.2GHZ