

TWO-3400L semi-isolated wall outlet



- **Three output isolators - Radio/TV/Data (1GHz)**
- **Modem Safe™ surge protection & intermodulation reduction solution**
- **Meets EN Class A screening requirements**
- **High isolation between ports**
- **Diplexers for low upstream attenuation**
- **Loop through for cascaded network**
- **Easy to install**
- **1GHz capable**



Overview

Designed for easy in-home installation, the TWO series contains wall outlets to suit a range of home network configurations.

The TWO-3400L is used to connect a cable modem, a radio and a TV set to the cable network. High isolation between output ports is achieved by using high quality diplex filters and prevents the cable modem from generating interference on TV and radio channels.

Low upstream attenuation on the cable port provides cable operators with greater flexibility in the return path.

The TWO-3400L's durable zinc die-cast housing with high quality in and output connectors offers trouble-free multimedia connectivity.

The different connectors for TV (IEC male), Radio (IEC female) and the dataport (F-female) clearly mark the dedicated connection points for TV and data applications.

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
- Improves customer service
- Reduces truck rolls

Specifications

		MHz	TWO-3400L	
			Typ	Max
Insertion loss (dB)	In -> TV	120-1000	4.0	5.0
	In -> R	87.5-108	4.5	5.5
	In -> Data	5 - 65	0.7	1.5
		87.5 - 1000	6.0	7.2
Return loss (dB, min)	In	5 - 65	20.0	
		87.5 - 108 ¹	14.0	
		120 - 1000 ¹	18.0	
	R	87.5 - 108	14.0	
	Data	5 - 65	20.0	
		87.5 - 1000 ¹	18.0	
	TV	120 - 1000 ¹	18.0	
Isolation (dB, min)	TV -> R	5 - 65	25.0	
		87.5-108	15.0	
		120 - 250	15.0	
		250 - 1000	25.0	
	Data -> TV	5 - 65	60.0	
		65 - 1000	22.0	
	Data -> R	5 - 65	60.0	
Screening efficiency (dB, typ) Minimum exceeds Class A ²		5 - 300	95.0	
		300 - 470	90.0	
		470 - 1000	85.0	
Flatness (dB, max)			+/-0.75	
Intermodulation p+q (dBc, min)	25 V surge ³		-120.0	
Surge Class conformance ⁴	All ports		1 kV 1.2/50µs	
Connectors			Terminal Block	
	R		IEC-female ⁵	
	Data		F-female ⁵	
	TV		IEC-male ⁵	
Material	Housing		Nickel plated Zinc die-cast	
	F-spring		Silver plated Phosphor bronze	
Impedance (Ohm, typ)			75	
Dimensions (mm)	L x H x D		70.2x70.2x30.0	
Equipment Approval	CE			

Remarks

1	Where frequency is above 40 MHz, deduct 1.5 dB/Octave
2	Tested according to EN 50083-2 2006
3	Two carriers (50 & 55MHz), out to in, @ 120dBµV, after 10 pulses (25V/1,2µS rise time/500µS duration) at all ports
4	Tested according to IEC 61000-4-5 2005
5	Due to Universal Press-in Connectors any configuration of output Connectors is possible
	DC power blocking on all F ports

Ordering information

Item Name	Article number
TWO-3400/L	10463400

Measurements taken at room temperature

© Copyright 2012 Technetix Group Limited. All rights reserved.

This document is for information only. Features and specifications are subject to change without notice. Technetix, the Technetix logo, Ingress Safe, Modem Safe and certain other marks and logos are trade marks or registered trade marks of Technetix Group Limited in the UK and certain other countries. Other brand and company names are trade marks of their respective owners. Technetix protects its technology and designs by registering patents, trade marks and designs in Europe and certain other countries.