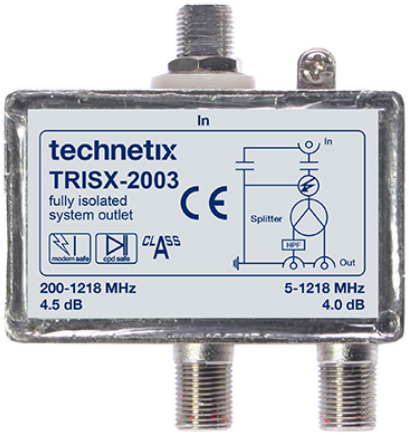
TRISX-2003 fully isolated wall outlet

- **Dual output isolator**
- **Technetix Modem Safe® surge protection and intermodulation reduction solution**
- **Technetix CPD Safe™ - nickel plated, zinc alloy casing and NiSn plated, machined brass input connector with silver plated F-inner spring**
- **Diplex filters for low loss**
- **Good intermodulation performance**
- **Low leakage current**



Overview

Isolators (frequently referred to as system outlets) are used to separate in-home installations or subscriber equipment from the CATV network. They prevent hazardous voltages from being transferred to in-home installations.

Technetix supplies two main types of isolator - fully and semi-isolated system outlets. The TRISX series comprises fully isolated system outlets developed to meet the needs of the European market. They incorporate high voltage capacitors that provide isolation to both the inner and the outer conductors of the coaxial connectors. There are a variety of one, two and three port isolators in the TRISX series as well as many accessories such as ABS housings, adaptor plates and push-on filters.

The TRISX-2003 dual output isolator has a nickel plated, zinc alloy casing and a NiSn plated, machined brass input connector.

Technetix Modem Safe®

Technetix 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

Technetix CPD Safe™

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidisation of dissimilar metals when in close contact. Technetix CPD Safe™ technology protects against CPD:

- Removes a primary cause of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Reduces truck rolls
- Improves customer service

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Specifications

		MHz	Min	Typ	Max
Insertion Loss (dB)	In-Data	5-1218			5.0
	In-TV	5-160	30		
		200-230			6.0
		230-1218			5.5
Return Loss (dB)[1]	In	5-160	20		
		200-862	16		
		862-1218	10		
	Data	5-862	18		
		862-1218	14		
	TV	200-862	14		
		862-1218	8		
Isolation (dB)[2]	TV-Data	5-160	45		
		200-862	20		
		862-1218	18		
Screening efficiency (db)[3]		10-12	80		
		12-30	85		
		30-300	85		
		300-470	80		
		470-1218	75		
Group Delay ΔF=4.43 MHz		5-1218	8 ns		
Galvanic isolation 2120 V DC (mA, max)[4]	Inner (input) - Inner (output) Outer (input) - Outer (output)	0.7			
Galvanic isolation 230 V DC (mA, max)[4]	Inner (input) - Inner (output) Outer (input) - Outer (output)	2.0			
Intermodulation p+q (dB, min)	No surge[5] 25 V surge[6] 1 kV surge[7]	-110.0 -110.0 -110.0			
Surge Class conformance[8,9]	In	1 kV 1.2/50 µS			
Connectors	All ports	F-female			
Material	Housing	Nlckel plated zinc die-cast			
	F-spring	Silver plated beryllium copper			
Impedance (Ohm, typ)		75			
Dimensions (mm)	L X H X D	60 x 38 x 20			
Equipment approval		CE			

Remarks

	All specifications are measured at room temperature
1	Where frequency is above 40 MHz, deduct 1.5 dB/Octave, with a minimum of 14 dB
2	Where frequency is above 40 MHz, deduct 1.5 dB/Octave
3	Test methods for frequencies according to EN 50083-2 2012
4	Tested according to BS EN 60728-11.2010
5	Two carriers (60 and 65 MHz) output to output @ 120 dBµV / 60 dBµV before surge
6	Two carriers (60 and 65 MHz) output to output @ 120 dBµV / 60 dBµV after 10 pulses (25 V/1.2 µs rise time / 500 µs duration) at all ports
7	Two carriers (60 and 65 MHz) output to output @ 120 dBµV/60 dBmV, after 1 pulse (1 kV 1.2 µs/50 µs, IEC BS EN 61000-4-5:2014 level 2) at input port
8	Tested according to IEC BS EN 61000-4-5:2014
9	Additional protection via Modem Safe circuit allows a maximum output of 35 V

Ordering information

Item name:	TRISX-2003
Article number:	19010540

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