



## OVERVIEW

Zemecs T312A22B Category 5e STP patch panel is designed and manufactured to exceed performances specified by ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801-1:2017 and IEC 61935-2 cabling standards. It comes with a cover that protects contacts from dust.

## FEATURES

- Exceeds requirements of ANSI/TIA/EIA-568.2-D, EN 50173, ISO/IEC 11801-1:2017 and IEC 61935-2 cabling standards for channels, links and components
- Supports PoE and PoE+ applications
- Error free performance up to 100 Mhz. at 1 Gigabit Ethernet
- 50µ" gold plated contact surface
- TIA 568 A/B Wiring
- With cable organizer and preprinted labelling field

## APPLICATIONS

- 1000 Base-T Gigabit Ethernet
- 100 Base-TX Fast Ethernet
- 10 Base-T Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- ISDN
- 4/16 Mbps Token Ring
- 100 Mbps TP-PMD
- Broadband and baseband video



## MATERIAL AND PHYSICAL SPECIFICATIONS

Housing Material	Electrostatic Powder Coated SPCC
Plug Contact Surface	50µ" Gold Plate Over 100µ" Nickel
IDC Terminal	100µ" Tinned Phosphorous Bronze Over Nickel Undercoat
PCB	FR4, 1,6mm. Thickness
IDC Plastics	PC,UL94V-0.
IDC Contact Angle	90°
Colour	Panel: Black(standard), Cover: Black
Port Numbering	Preprinted



## COMPLIANCE

### Standards For Generic Cabling And Cabling Components - Category 5e Plug Requirements

- ISO/IEC 11801-1:2017 (V.1.0)
- ISO/IEC 11801-2:2017 (V.1.0)
- EN 50173-1:2018, EN 50173-2:2018
- IEC 60603-7-5: 2010 (V.2.0)
- IEC 60512-99-002:2019
- ANSI/TIA-568.2-D:2018

### Standards For The Restriction Of Use Of Hazardous Substances In Electrical And Electronic Equipments

- 2011/65/EU (RoHS-2)

## TRANSMISSION PERFORMANCE

FREQUENCY (Mhz.)	INSERTION LOSS (dB.,max.)	RETURN LOSS (dB., min.)	NEXT (dB., min.)	PSNEXT (dB., min.)	ACRF (dB., min.)
1	1,7	21,4	72,7	70,0	71,4
4	3,2	23,9	72,6	69,2	60,8
8	4,6	24,4	67,7	64,9	54,9
10	5,1	24,6	66,3	65,0	52,9
16	6,5	23,4	64,2	61,7	48,9
20	7,3	23,5	62,3	59,5	47,2
25	8,2	24,5	59,7	57,4	45,5
31,25	9,2	25,3	59,4	56,7	43,9
62,5	13,1	22,1	53,5	51,2	36,7
100	16,9	21,1	49,0	46,4	32,8

Typical performance for TIA Channel is given. Actual performance may vary depending on installation and environmental conditions.

## ENVIRONMENTAL SPECIFICATIONS

Transportation & Storage Temperature	-40 / +70	°C
Installation Temperature	-20 / +60	°C
Operation Temperature	-10 / +60	°C
Relative Humidity	10 - 93, Non-condensing	%

## MECHANICAL SPECIFICATIONS

Compatible Plug Type	8P8C	RJ-45
Insertion Life	750	Cycles (IEC-60603-7)
Durability(Termination Cycles)	200	Cycles, Max.
Plug-Jack Contact Force	100	g., Max. (FCC Compatible RJ-45 Plug)
Punch Down Force	50	N., Min.
Contact Compatibility	22-26 AWG	Solid or stranded
Suitable Termination Tool	110	

## ELECTRICAL SPECIFICATIONS

Insulation Resistance (@500 VDC)	500	MΩ, Min.
DC Resistance (@20 °C)	0,1	Ω, Max.
Contact Resistance	20	mΩ, Max.
Termination Resistance	2,5	mΩ, Max.
Current Rating	1,5	A, Max.
Dielectric Strength (@60 Hz./1min.)	1.000	VAC Rms
Propagation Delay Skew	1,25	ns., Max.

## PART NUMBER CODING

Part Nr.	Product Description
T312A22B	Zemecs Category 5e STP 24 Port 1U Patch Panel, Black

