



## OVERVIEW

Zemecs T474D12B series Category 6 STP keystone jacks exceed ANSI/TIA 568-2.D, EN 50173, ISO/IEC 11801, IEC 60603-7-51, IEC 60512-99-001 requirements for 1 Gigabit structured cabling systems up to 250 Mhz. The solderless IDC contact surface guarantees stable signal quality at all frequencies.

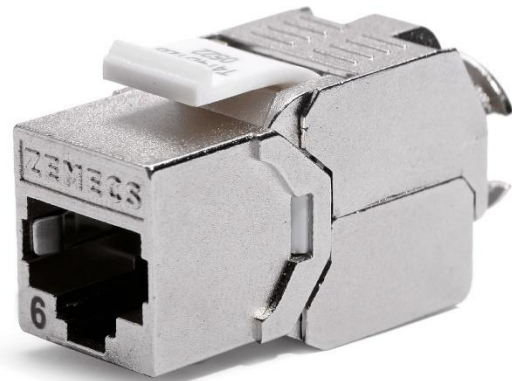
The products fit into Zemecs unloaded patch panels and faceplates and can be terminated without a tool.

## FEATURES

- Exceeds requirements of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801, IEC 60603-7 and IEC 60512-99 cabling standards for channels, links and components
- Supports PoE and PoE+ applications
- Error free performance up to 250 Mhz. at 1 Gigabit Ethernet
- TIA 568 A/B Wiring

## 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	Anti Corrosion Nickel Plated Zinc Alloy
Rear Housing Material	Anti Corrosion Nickel Plated Zinc Alloy
Bracket Material	Anti Corrosion Nickel-Silver Zinc Alloy
Plug Contact Surface	50µ" Gold Plate Over 100µ" Nickel
IDC Terminal	100µ" Tinned Phosphorous Bronze Over Nickel Undercoat
PCB	FR4, 1,6mm. Thickness
Contact Holder / Jack Latch	PC, UL94V-0 / PC+ABS, UL94V-0.
IDC Contact Angle	180°
Colour	Metallic



## COMPLIANCE

### Standards For Generic Cabling And Cabling Components - Category 6 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.)	ATTENUATION (dB., max.)	RETURN LOSS (dB., min.)	NEXT (dB., min.)	PSNEXT (dB., min.)	ACRF (dB., min.)
1	1,7	26,8	79,8	77,5	68,5
4	3,2	30,6	68	66,8	59,5
8	4,7	30,1	71,2	68,6	51,4
10	5,3	29,3	67,5	64,5	49,4
16	6,8	30,3	62,6	61,5	43,8
20	7,6	29,1	65,4	62,2	45
25	8,6	28,9	63	60,6	45
31,25	9,7	29,2	58,7	55,8	41,6
62,5	14,1	20,9	57,4	55,7	38,7
100	18,2	20,9	57,4	55,6	32,5
200	26,8	20	49,8	46,8	23,1
250	30,1	16,3	46,3	43,4	23,5

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)
Plug-Jack Coupling Force	8	N., Max. (all wires)
Contact Compatibility	22-26 AWG	Solid or stranded
Suitable Termination Tool	Toolless	

## 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	2	A, Max.
Dielectric Strength (@60 Hz. / 1min.)	1.000	VAC Rms
Propagation Delay Skew	1,25	ns., Max.
Coupling Attenuation	60	dB., Max.

## PART NUMBER CODING

Part Nr.	Product Description
T474D12B	Zemecs Category 6 STP 180° Keystone Jack, Toolless, 50u" Gold Plated

