



OVERVIEW

Zemecs T473D12Y series Category 6 UTP keystone jacks exceed ISO/IEC 11801:2011(Ed.2.2) Class E, EN 50173, ANSI/TIA/568.2-D and IEC 61935-2 requirements for 1 Gigabit structured cabling systems. The solderless PCB design guarantees stable signal quality at all frequencies.

The products fit into Zemecs unloaded blank patch panels and faceplates and may be terminated without using a tool. They are ideal for use in structured cabling projects requiring high performance without third party certification.

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
- Error free performance up to 250 Mhz. at 1 Gigabit Ethernet
- Toolless termination
- TIA 568 A/B Wiring
- Choice of different colours

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	ABS, UL94V-0
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	PC, UL94V-0
IDC Contact Angle	180°
Colour	White (standard), others optional



COMPLIANCE

Standards For Generic Cabling And Cabling Components - Category 6 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 60603-7-4: 2010 (V.2.0)
• 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	1,6	36,8	88,5	86,5	73,2
4	3,1	32,2	77,4	73,3	60,1
8	4,3	34,7	67,2	64,3	54,8
10	4,8	36,4	67,2	67,6	53,0
16	6,1	36,9	65,8	63,6	50,1
20	6,8	31,5	65,4	62,2	47,6
25	7,6	29,2	62,2	60,6	48,2
31,25	8,5	33,0	61,1	60,6	42,1
62,5	12,0	31,3	59,9	55,7	41,1
100	15,4	32,0	57,1	54,3	36,7
200	22,1	22,2	50,9	50,4	26,8
250	25,0	22,2	47,3	46,4	25,2

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
T473D12Y	Zemecs Category 6 UTP 180° Toolless Keystone Jack
Y	A or W: White, C or K: Black, Y: Yellow G: Green, L: Blue O: Orange R: Red V: Violet