



OVERVIEW

Zemecs T7X1A series Category 6 UTP RJ-45 plugs are used to terminate LAN cables at devices. They are available in standard 8P8C standard and open ended EZ types. The 3 prongs design makes them suitable for use with solid and stranded cables generating excellent transmission performance.

FEATURES

- Exceeds requirements of ANSI/TIA/EIA-568.2-D, EN 50173, ISO/IEC 11801, IEC 60603-7 and IEC 60512-99 Category 6 plug requirements
- Supports PoE and PoE+ applications
- 50µ" Gold plated contact surface
- Error free performance up to 250 Mhz. at 1 Gigabit Ethernet
- TIA 568 A/B Wiring
- Package: 100 pcs/jar (for T781A*)

* Please see "Part Number Coding" in Page 2

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	Polycarbonate, UL94V-2
Contact Material	Copper
Plug Contact Surface	50µ" Gold Plate Over 100µ" Nickel
Housing Colour	Transparent
Contact Type	3 Prongs (suits solid and stranded cables)
Suitable Conductor Diameter	0,405mm. - 0,511mm.
Suitable Cable Outer Diameter	6,5mm., Max.



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 60603-7-4: 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)	

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	1.250	Cycles (IEC-60603-7)
Durability(Termination Cycles)	200	Cycles, Max.
Cable –Plug Contact Force	9(89)	kg.(N.), Max.
Plug-Jack Coupling Force	8	N., Max. (all wires)

ELECTRICAL SPECIFICATIONS

Insulation Resistance (@500 VDC)	500	MΩ, Min.
DC Resistance (@20 °C)	0,1	Ω, Max.
Contact Resistance (@ 100mA, 50mV)	20	mΩ, Max.
Termination Resistance	35	mΩ, Max.
Current Rating	1,5	A, Max.
Dielectric Strength (@60 Hz. / 1min.)	1.000	VAC Rms

PART NUMBER CODING*

Part Nr.	Product Description
T721A	Zemecs Category 6 UTP RJ-45 (8P8C) Plug, Pack of 100
T781A	Zemecs EZ Type Category 6 UTP RJ-45 (8P8C) Plug, Pack of 100

* Standard package for T721A is 100 pcs/PE bag. Products to be delivered after February 2023 shall be packaged as 100 pcs/jar with same part numbers.

