

# CATEGORY 6A UTP KEYSTONE JACK TOOL LESS

Norden Category 6A UTP tool less Keystone Jacks are designed to reduce the Insertion loss & alien cross talk in order to provide maximum flexibility and high performance for all 10G Ethernet applications and are available in a 180° orientation with back interconnection of Dual IDC blocks in universal pin/pair assignment. 180° orientation provides perfect termination with minimum distance to the IDC. Our tool-less termination allows all eight conductors to be terminated simultaneously when the termination cap is pressed into place. This is tested to 500 MHz range over 100 m and supports T568 A&B wiring & Easy installation. Stronger & transparent IDC Cover is an added advantage for protection. Norden Category 6A KSJ is also backward compatible supporting current Category 6, Category 5E, and voice network applications.



## COMPLIANCE

IEEE P802.3an, IEEE 802.af, IEEE 802.3at for PoE and TIA/EIA TSB155 (draft) Category 6A specifications and Class E channel requirements of 2nd edition. IEC 60603-7-4, ISO/IEC 11801 and CENELEC EN50173-1, the Cat 6A channel requirements of TIA/EIA-568-C.2-10

## DESIGN & MATERIALS

Colour	Black and White or others available upon request
Size	35.1 mm X 17.1 mm X 25.2 mm
RJ45 Port	11.8 mm X 9.8 mm
Angle	180 Degree
Temperature - Storage	-40 °C to +70 °C
Temperature - Operation	-10 °C to +65 °C
Operating Humidity Range	-10 °C to +60 °C
Housing Material	High Impact, Flame-Retardant Plastic Compound, UL 94 V-0
IDC Type	Dual (110 Or Krone) Type
IDC Wire Gauge	22-26 AWG, Solid or Stranded
Colour Coding	As Per 568 A/B Standard
Spring Wire	Phosphor Bronze Alloy
IDC	Phosphor Bronze Alloy
Jack Contact	Gold over Nickel
Conductor Termination	> 200
Insulation Diameter	0.7-1.4 mm

## STANDARDS

Flammability Rating	UL 94 V-0
Safety Rating	UL 1863

## ELECTRICAL DATA

Current Rating	1.5 A
Insulation Resistance	500 MΩ min 100 V d.c.
Voltage Rating	72 Vdc max.
Dielectric Voltage	1000 V dc or ac, 60 Hz for 1 min (Contact-Contact)
Plug/Jack Contact Resistance	20 mΩ per contact
IDC Contact Resistance	< 5 mΩ max.

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## MECHANICAL & TRANSMISSION DATA

Insertion/Extraction Life	750 Cycles minimum
Retention	133 N
Propagation delay	2.5 ns max./1-500MHz
Propagation delay Skew	1.25 ns max./1-500 MHz
Coupling Attenuation	45 dB @ 30 - 500 MHz

## TRANSMISSION PERFORMANCE DATA OF CHANNEL

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ACR dB
1	1.7	86.3	83.3	26.0	84.6
4	3.4	85.0	83.0	29.0	75.6
10	5.4	77.3	74.3	31.0	71.9
20	7.6	70.0	67.0	30.0	62.4
31.25	9.7	68.0	65.0	29.8	58.3
100	18.0	65.3	62.3	27.0	47.3
150	23.6	62.0	59.8	26.0	38.4
200	27.4	59.0	57.2	25.0	31.6
250	31.0	57.6	54.6	25.2	26.6
300	34.2	55.0	52.0	24.0	20.3
400	40.0	53.0	51.8	21.8	13.0
500	42.2	52.0	50.0	21.8	9.8

## ORDERING INFORMATION

Part Number	Description
122-41T180X	Category 6A UTP Keystone Jack Tool Less 180D
122-41T181DX	Category 6A UTP Keystone Jack Tool Less 180D with Shutter

X: BK(Black), WH(White)

## PACKING INFORMATION

Part Number	Packing Qty.	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
122-41T180X	50 x 20 x 1	Carton Box	14.0	18.0	620 x 420 x 430
122-41T181DX	50 x 20 x 1	Carton Box	14.0	18.0	620 x 420 x 430