

Cat 6 Connecting Hardware Performance

ETL Verified: 102962896CRT-002c



Impedance Matching Technique
U.S. Patent: US 9,391,405 B1

Tool-less Jack Structure
U.S. Patent: US 9,929,480 B1

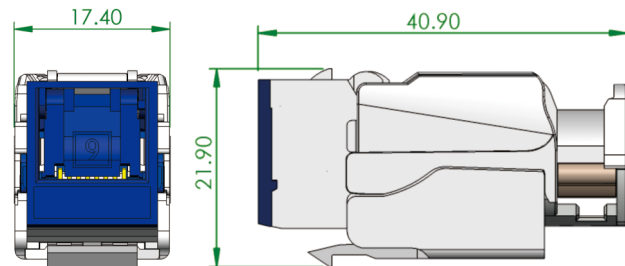
Technical Information

Transmission Performance	ISO-11801 & TIA-568.2-D Cat 6 Connecting Hardware Certified
FCC & IEC Compliance	Meets FCC part 68-F & IEC 60603-7
PoE Compliance	Supports Power over Ethernet PoE+ 802.3at and PoE++ 802.3bt
Ethernet Standard	IEEE 802.3ab 1000Base-T Gbit/s Ethernet over Twisted Pair
EU Directive 2002/95/EC	RoHS Compliant
Safety Listing	UL Listed

Materials Specifications

Jack Housing	Zinc Alloy, Nickel Plated
Spring Wire	Phosphor Bronze
Spring Wire Plating	50u" Gold at Contact Area Nickel Undercoat
IDC Terminal	Phosphor Bronze
IDC Terminal Plating	Ni/Sn
IDC Housing	ABS UL94V-0
Top Cover + Rear Cover	Zinc Alloy, Nickel Plated
Frame + Shutter	Hi-impact PC UL94V-0
PCB	FR-4

Dimensions



(Unit=mm)

Mechanical Specifications

Keystone Latching Force	>180N
Plug Insertion Life	>750x
Plug Retention Force	>80N
Plug Insertion Force	<30N
Plug Withdraw Force	<30N
IDC Re-Termination	>20x *
Cable Retention Force	>70N

Electrical Specifications

Contact Resistance	<20mΩ
DC Resistance	<200mΩ
Shield Resistance	<100mΩ
Resistance Unbalance	<50mΩ
Insulation Resistance	>500MΩ
Dielectric Strength	>1000VDC
Current Rating	1.5A @ 20°C

* re-terminate with same cable gauge

Environmental Specifications

Operating Temperature	-10°C to 60°C
Storage Temperature	-40°C to 68°C
Humidity	10% to 90%RH

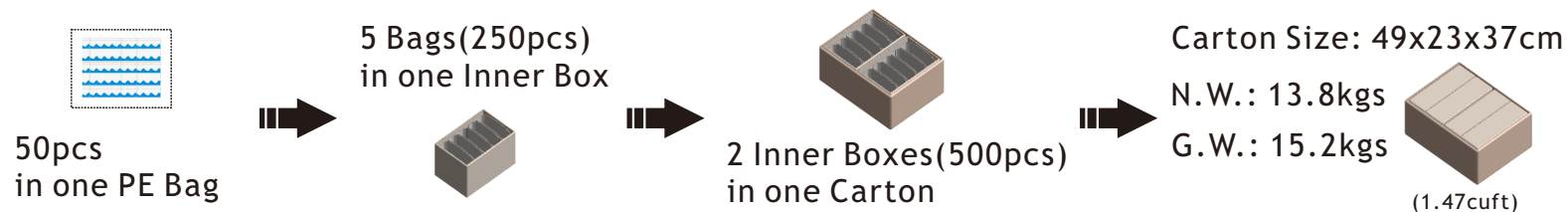
Cable & Tool Compatibility

Cable O.D.	5mm to 9.9mm
Insulation Diameter	0.8mm to 1.47mm
Conductor Gauge	23AWG Solid to 26AWG Stranded
Tool	EZ-RJ45 Parallel Plier 3013APCT01

Transmission Characteristics

Freq. (MHz)	ANSI/TIA - 568.2-D		ANSI/TIA - 568.2-D		ANSI/TIA - 568.2-D		ANSI/TIA - 568.2-D		ANSI/TIA - 568.2-D		ANSI/TIA - 568.2-D		ANSI/TIA - 568.2-D	
	NEXT 36-54 Highest & Lowest (dB)		NEXT The Other Pairs (dB)		RL (dB)		FEXT (dB)		IL (dB)		TCL (dB)		TCTL (dB)	
	Limit	Min.	Limit	Min.	Limit	Min.	Limit	Min.	Limit	Max.	Limit	Min.	Limit	Min.
1	75.00	78.90	75.00	79.40	30.00	40.32	75.00	87.33	0.10	0.01	40.00	74.86	40.00	72.19
4	75.00	81.06	75.00	77.90	30.00	40.24	71.06	75.34	0.10	0.00	40.00	66.20	40.00	62.92
8	74.44	77.98	75.00	76.50	30.00	40.13	65.04	70.51	0.10	0.00	40.00	61.99	40.00	57.88
10	72.50	77.95	74.00	76.85	30.00	40.02	63.10	68.39	0.10	0.01	40.00	61.52	40.00	56.01
16	68.42	74.03	69.92	72.05	30.00	39.70	59.02	63.95	0.10	0.01	40.00	57.42	40.00	51.85
20	66.48	72.43	67.98	70.16	30.00	39.46	57.08	61.92	0.10	0.01	40.00	54.31	40.00	50.05
25	64.54	70.66	66.04	68.28	30.00	39.12	55.14	60.05	0.10	0.01	40.00	51.68	40.00	48.09
31.25	62.40	68.65	63.90	66.17	30.00	38.62	53.00	58.14	0.11	0.01	37.90	48.84	37.90	45.92
62.5	56.51	63.20	58.01	60.21	28.01	34.93	47.11	52.33	0.16	0.02	32.01	41.95	32.01	39.97
100	52.50	58.99	54.00	56.40	24.00	31.81	43.10	48.26	0.20	0.03	28.00	37.79	28.00	36.50
200	46.48	50.30	47.98	50.21	17.98	26.71	37.08	42.11	0.28	0.06	21.98	31.85	21.98	30.56
250	44.54	47.03	46.04	47.76	16.04	24.89	35.14	40.21	0.32	0.07	20.04	30.17	20.04	28.59

Packaging & Weights



Order Information

3013ALKVSD6S__ Shielded Super Cat 6 Component-Rated Shuttered Toolless Keystone Jack



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