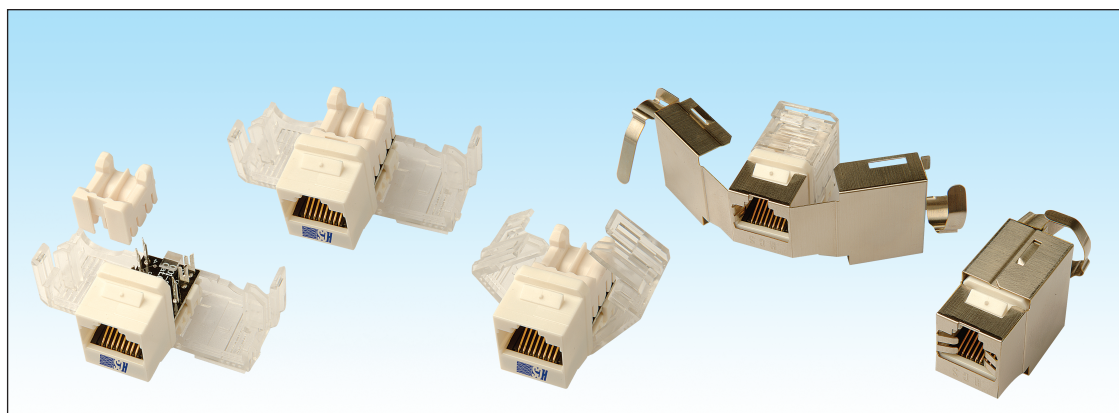


## Category 5e Shielded RJ-45 Tool-Less Keystone Jacks



### Description

HCS DataLink 100e patented shielded copper RJ-45 tool-less keystone jack series includes high performance Category 5e snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-3 (shielded 100 MHz connectors).

These snap-fit keystone modular jacks have a tool-free design that does not require a punch-down tool during cable termination.

HCS DataLink 100e jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.

HCS DataLink 100e tool-less jacks are designed in a 90° formation with 3 optional color-coding on the wire terminal for ease of installation.

All jacks fully conform to ANSI/TIA/568-C.2 Category 5e, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition) requirements.

The HCS Logo and the DataLink 100e Trademark ensure long lasting high-performance and full support of all relevant applications, including 1000BASE-T (Gigabit Ethernet).

### Applications

HCS DataLink 100e shielded copper RJ-45 tool-less keystone jacks are used in wall plates, patch panels and surface box outlets and they fully support all relevant LAN applications, including the following protocols:

- 1000BASE-T Gigabit Ethernet
- ATM 155
- TP-PMD
- 100BASE-T Fast Ethernet
- 100BASE-T2
- 100BASE-T4
- 100BASE-TX
- Token Ring 100 Mbps
- ATM 52
- ATM 25
- 10BASE-T Ethernet
- Token Ring 4 Mbps and 16 Mbps
- Broadband and Baseband Video
- ISDN Basic and Primary Access
- 1BASE-5 Starlan
- ISALAN
- ITU V.21 and X.11

### Qualifications and Approvals

HCS DataLink 100e shielded RJ-45 tool-less keystone jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system.

HCS DataLink 100e shielded RJ-45 tool-less keystone jacks comply to IEC 60603-7-3 (shielded 100 MHz connectors) and to the following standards:

Transmission	EMC	Safety
<ul style="list-style-type: none"> <li>❑ ANSI/TIA/568-C.2</li> <li>❑ ISO/IEC-11801</li> </ul>	<ul style="list-style-type: none"> <li>❑ EN-55022, Class B (Europe)</li> <li>❑ FCC Part 68</li> </ul>	<ul style="list-style-type: none"> <li>❑ UL94 V-0 rated plastic material</li> <li>❑ Zero-halogen in LSOH constructions.</li> </ul>

### Benefits & Features

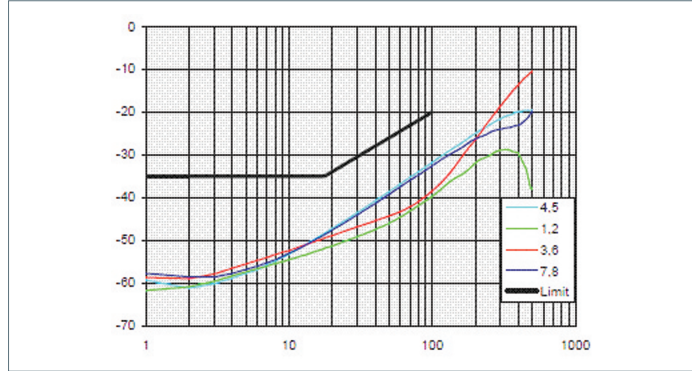
- ✓ Tool-free design - providing easy cable termination without any punch-down tool.
- ✓ Exceptional material properties and design - providing a unique Century™ Lifetime Warranty.
- ✓ Patented 90° design - providing easier access, better and faster wire connection.
- ✓ High quality corrosion-resistant metal shield casing - providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation and maximizing noise immunity.
- ✓ Detailed installation manual in English and Turkish - providing clear and comprehensive instructions.
- ✓ Exceeding Category 5e performance - providing full support to Gigabit Ethernet.
- ✓ Robust and installer-friendly design - providing reduced installation and operating costs
- ✓ Compatible with 22-26 AWG solid or stranded conductors - providing support to a wider range of cabling types.
- ✓ Unique DoubleSafe™ Quality Assurance Program - providing lowest rejection rate available.

### General Properties

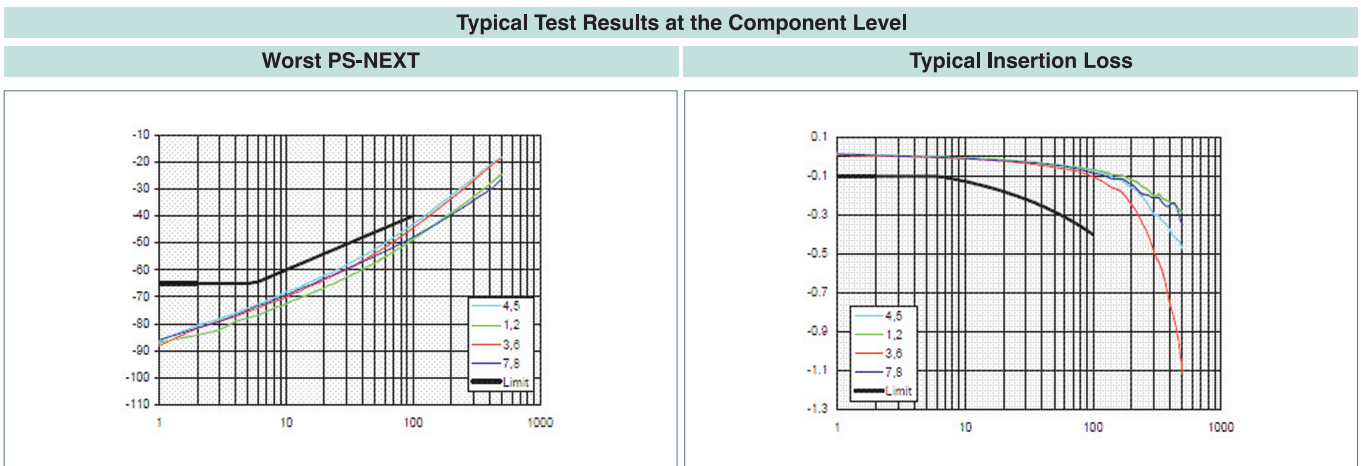
Housing Material	High impact, Flame-retardant plastic compound, UL 94 V-0.
Jack Contacts Material	1.27 µm (50 µ-inches) gold plating over 2.54 µm (100 µ-inches) nickel plated copper alloy.
Overall shield	Fully shielded corrosion-resistant metal casing.
Environmental conditions	-40 to +60C at 0-90% RH (Non condensing)
Packaging	50 or 100 Units per box.
Plug Retention Force	14 Kgf (140N) min.
Plug to jack contact force	100 gr. min. (using HCS approved plug).
Storage Temperature	-20 to +80C
Plug insertion durability	750 mating cycles
Conductor compatibility range	22 to 26 AWG, solid or stranded
Standard Color	White RAL 1013. Other colors available upon request.

## Category 5e Shielded RJ-45 Tool-Less Keystone Jacks

Transmission and Electrical Specifications								Typical Return Loss (Forward, Component Level)	
Frequency MHz	Insertion Loss dB		NEXT Loss dB		FEXT Loss dB		RL dB		
	Nom	Max	Nom	Min	Nom	Min	Nom	Min	
	1.00	0.02	0.10	85.0	65.0	77.0	65.0	55.0	30.0
4.00	0.03	0.10	75.0	65.0	65.0	63.1	50.0	30.0	
8.00	0.04	0.11	70.0	64.9	60.0	57.0	48.0	30.0	
10.00	0.04	0.13	68.0	63.0	58.0	55.1	42.0	30.0	
16.00	0.05	0.16	64.0	58.9	54.0	51.0	40.0	30.0	
25.00	0.06	0.20	60.0	55.0	50.0	47.1	35.0	30.0	
31.25	0.07	0.22	58.0	53.1	48.0	45.2	33.0	30.0	
62.50	0.11	0.32	52.0	47.1	42.0	39.1	28.1	24.1	
100.00	0.15	0.40	45.0	43.0	38.0	35.1	24.0	20.0	



Propagation Delay	2.5 nS max @ 1-100 MHz
Propagation Delay Skew	1.25 nS max @ 1-100 MHz
Current rating	1.5 A max.
Contact resistance	20 mOhm max (per contact)
Input/Output resistance	200 mOhm max
Input/Output resistance Unbalance	50 mOhm max
Voltage rating	72 Vdc max
Dielectric strength	1000 Volts rms for 1 minute
Insulation Resistance	500 MegaOhm min @ 500 Vdc
DC Resistance	0.1 Ohm max @ 20C
TCL	28-20-Log(f/100) dB min @ 1-100 MHz
Transfer Impedance	0.1 Ohm @ 1 MHz, 0.2 Ohm @ 10 MHz, 1.6 Ohm @ 80 MHz max.



Ordering Information		
HCS P/N	Description	T568
J5E-00861	8P8C RJ-45 Shielded Tool-Hess Keystone Jack CAT 5e	B
J5E-00862	8P8C RJ-45 Shielded Tool-Hess Keystone Jack CAT 5e	A
J5E-00863	8P8C RJ-45 Shielded Tool-Hess Keystone Jack CAT 5e	Universal