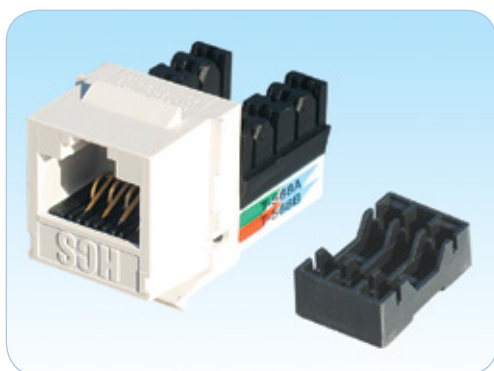




## Category 5E Unshielded RJ-45 Keystone Jacks



### Description

**HCS DataLink 100E patented unshielded copper RJ-45 keystone jack series includes high performance Category 5E snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-2 (unshielded 100 MHz connectors).**

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

**All HCS DataLink 100E jacks are designed in a 90° formation and are available with back interconnection of 110 IDC blocks or special LSA-Plus/110 IDC combination blocks in T568A, T568B or Universal pin/pair assignment.**

**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 unshielded copper RJ-45 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:

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

### Qualifications and Approvals

HCS DataLink 100E 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 jacks comply to IEC 60603-7-2 (unshielded 100 MHz connectors) and to the following standards:

| TRANSMISSION                                         | EMC                                                            | SAFETY                                                                 |
|------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> ANSI/TIA/568-C.2 | <input checked="" type="checkbox"/> EN-55022, Class B (Europe) | <input checked="" type="checkbox"/> UL94 V-0 plastic materials         |
| <input checked="" type="checkbox"/> ISO/IEC-11801    | <input checked="" type="checkbox"/> FCC Part 68                | <input checked="" type="checkbox"/> Zero-halogen in LSOH constructions |

### Benefits & Features

- ➔ Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- ➔ Patented 90° or 180° design - Providing easier access, better and faster wire connection.
- ➔ 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.
- ➔ Available in T568A, T568B or Universal pin/pair assignment - Providing a wider product range.
- ➔ 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        | 50 micro-inches gold plating over 100 micro-inches nickel plated copper alloy. |
| 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 Unshielded RJ-45 Keystone Jacks



### TRANSMISSION AND ELECTRICAL SPECIFICATIONS

| FREQ.  | Insertion Loss |      | NEXT |      | FEXT |      | RL   |      |
|--------|----------------|------|------|------|------|------|------|------|
| MHz    | dB/100m        |      | dB   |      | dB   |      | 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                | N/A                                 |

### ORDERING INFORMATION

| HCS P/N   | Description                                | Termination Blocks | Punch-Down Tool | T568 |
|-----------|--------------------------------------------|--------------------|-----------------|------|
| J5E-00811 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | 110             | B    |
| J5E-00812 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | 110             | A    |
| J5E-00813 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | 110             | UNI  |
| J5E-00814 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | LSA Plus & 110  | B    |
| J5E-00815 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | LSA Plus & 110  | A    |
| J5E-00816 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | LSA Plus & 110  | UNI  |
| J5E-00817 | 8P8C RJ-45 Unshielded Keystone Jack CAT 5E | 110 IDC            | LSA Plus & 110  | UNI  |