



### Description

HCS DataLink 100E unshielded copper RJ-45 modular plugs series includes a range of high performance 8-position/ 8-contact (8P8C) plugs conforming to IEC 60603-7-2 (unshielded 100 MHz connectors). The range of products includes plugs suitable for round cables with stranded or solid conductors, 24 to 26 AWG. HCS DataLink 100E modular plugs are designed to provide exceptional performance in high-speed communication applications, having electro-polished, 50-microinch gold-plated contacts for the most reliable, long-lasting performance. All plugs can be terminated with the HCS standard tools. When tested in mated position with HCS DataLink 100E unshielded copper RJ-45 jacks, the HCS plugs fully conform to all Category 5E ANSI/TIA/568-C.2 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 RJ-45 plugs are used for patch-cord termination, supporting 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 plugs are supported by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 100E plugs 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 rated plastic materials   |
| <input checked="" type="checkbox"/> ISO/IEC-11801    | <input checked="" type="checkbox"/> FCC Part 15, Subpart J, Class A (USA) | <input checked="" type="checkbox"/> Zero-halogen in LSOH constructions |

### Benefits & Features

- ➔ Exceptional material properties and design - Providing a most reliable termination.
- ➔ Available in many colors and shades - Providing custom color selection.
- ➔ 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 24-26 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

|                                |   |
|--------------------------------|---|
| Plug Tolerances and Dimensions | Compliant with IEC-60603-7-2 and FCC requirements       |
| Plug Housing Material          | Polycarbonate, rated UL 94 V-0.                         |
| Plug Contacts                  | Selective gold plating over nickel plated copper alloy. |
| Environmental Conditions       | -40 to +60C at 0-90% RH (Non condensing)                |
| Packaging                      | 100 units per bag.                                      |
| Cable to Plug Tensile Strength | 9 Kgf (90N) min.  |
| Plug to Jack Contact Force     | 100 gr min. (using HCS approved jacks).                 |
| Operating Temperature          | -20 to +80C   |
| Plug Insertion Durability      | 750 mating cycles                                       |
| Color                          | Transparent. Other colors available upon request.       |