DataLink 16

Category 3 Shielded and Unshielded Jacks and Plugs

HES Cabling Systems
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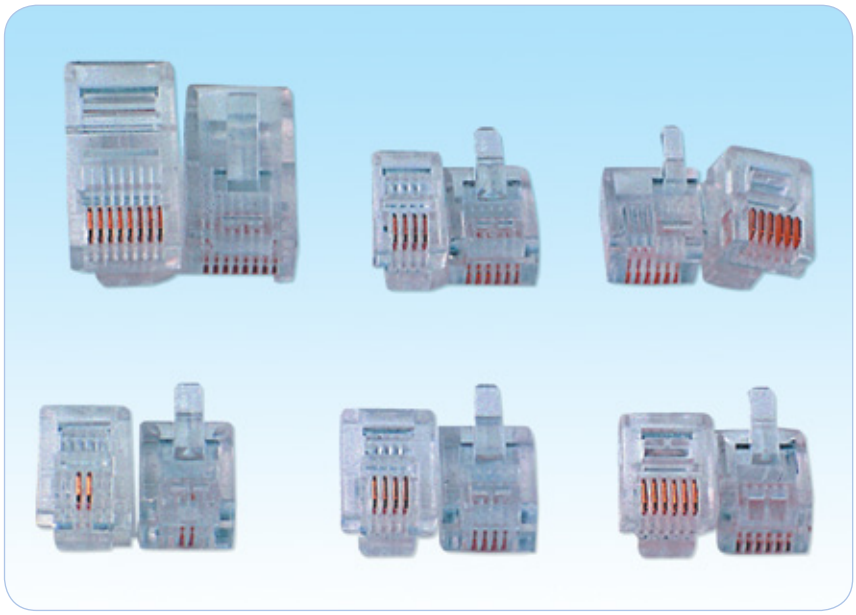

Description

HCS DataLink 16 connector series includes a wide range of shielded and unshielded copper modular plugs and jacks for low data rates and voice applications. The range of products includes plugs and jacks suitable for 2-5 pair, round or flat cables with stranded or solid conductors, 24 to 26 AWG.All plugs can be terminated with the HCS standard tools.When tested in mated position, the HCS DataLink 16 connectors fully conform to all Category 3 ANSI/TIA/568-C.2 requirements.
The HCS Logo and the DataLink 16 Trademark ensure long lasting high-performance and full support of all relevant applications.

Applications

HCS DataLink 16 connectors support the following protocols:

- ☑ 10BASE-T Ethernet
- ☑ Token Ring 4 Mbps
- ☑ Broadband and Baseband Video
- ☑ ISDN Basic and Primary Access
- ☑ 1BASE-5 Starlan
- ☑ ISALAN
- ☑ ITU V.21 and X.11
- ☑ Voice applications

Qualifications and Approvals

HCS DataLink 16 connectors are supported by the DoubleSafe™ QA program as a part of complete HCS cabling system.
HCS DataLink 16 connectors comply to the following standards:

TRANSMISSION	EMC	SAFETY
☑ ANSI/TIA/568-C.2	☑ EN-55022, Class B (Europe)	☑ UL94 V-0 rated plastic materials
☑ FCC Part 15, Subpart J, Class A (USA)	☑ 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 3 performance - Providing full support of all DSL modems, ISDN and all voice applications.
- ➔ 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.

PHYSICAL AND MECHANICAL PROPERTIES

Housing Material	Polycarbonate, rated UL 94 V-0.
Contacts	Gold plating over nickel plated metal.
Environmental Conditions	-40 to +60C at 0-90% RH (Non condensing)
Packaging	50-100 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.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT
MHz	dB/100m	dB
	Max	Min
1.0	0.1	58.0
2.0	0.1	52.0
3.0	0.1	48.4
4.0	0.2	46.0
8.0	0.3	39.9
10.0	0.3	38.0
12.0	0.3	36.4
14.0	0.3	35.1
16.0	0.4	33.9

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	0.2 Ohm max @ 20C
LCL	66-20·Log(f) dB min @ 1-100 MHz
Transfer Impedance	N/A

ORDERING INFORMATION

HCS P/N	Description	Shielded	Cable	Conductor	Notes
J03-00401	4P4C RJ-11 CAT 3 Plug	No	Flat	Stranded	-
J03-00402	4P4C RJ-11 CAT 3 Plug	No	Flat	Solid & Stranded	-
J03-00403	4P4C RJ-11 CAT 3 Plug	No	Round	Stranded	-
J03-00404	4P4C RJ-11 CAT 3 Plug	No	Round	Solid & Stranded	-
J03-00601	6P4C RJ-11 CAT 3 Plug	No	Flat	Stranded	-
J03-00602	6P4C RJ-11 CAT 3 Plug	No	Flat	Solid & Stranded	-
J03-00603	6P4C RJ-11 CAT 3 Plug	No	Round	Stranded	-
J03-00604	6P4C RJ-11 CAT 3 Plug	No	Round	Solid & Stranded	-
J03-00605	6P4C RJ-11 CAT 3 Plug	Yes	Round	Stranded	-
J03-00606	6P4C RJ-11 CAT 3 Plug	Yes	Round	Solid & Stranded	-
J03-00607	6P6C RJ-12 CAT 3 Plug	No	Flat	Stranded	-
J03-00608	6P6C RJ-12 CAT 3 Plug	No	Flat	Solid & Stranded	-
J03-00609	6P6C RJ-12 CAT 3 Plug	No	Round	Stranded	-
J03-00610	6P6C RJ-12 CAT 3 Plug	No	Round	Solid & Stranded	-
J03-00611	6P6C RJ-12 CAT 3 Plug	Yes	Round	Stranded	-
J03-00612	6P6C RJ-12 CAT 3 Plug	Yes	Round	Solid & Stranded	-
J03-00801	8P8C RJ-45 CAT 3 Plug	No	Flat	Stranded	-
J03-00802	8P8C RJ-45 CAT 3 Plug	No	Flat	Solid & Stranded	-
J03-00803	8P8C RJ-45 CAT 3 Plug	No	Round	Stranded	-
J03-00804	8P8C RJ-45 CAT 3 Plug	No	Round	Solid & Stranded	-
J03-00805	8P8C RJ-45 CAT 3 Plug	Yes	Round	Stranded	-
J03-00806	8P8C RJ-45 CAT 3 Plug	Yes	Round	Solid & Stranded	-
J03-01001	10P10C RJ-50 CAT 3 Plug	No	Flat	Stranded	-
J03-01002	10P10C RJ-50 CAT 3 Plug	No	Flat	Solid & Stranded	-
J03-01003	10P10C RJ-50 CAT 3 Plug	No	Round	Stranded	-
J03-01004	10P10C RJ-50 CAT 3 Plug	No	Round	Solid & Stranded	-
J03-01005	10P10C RJ-50 CAT 3 Plug	Yes	Round	Stranded	-
J03-01006	10P10C RJ-50 CAT 3 Plug	Yes	Round	Solid & Stranded	-
J03-00421	4P4C RJ-11 CAT 3 Jack	No	Flat & Round	Solid & Stranded	-
J03-00422	4P4C RJ-11 CAT 3 Jack	Yes	Flat & Round	Solid & Stranded	-
J03-00621	6P4C RJ-11 CAT 3 Jack	No	Flat & Round	Solid & Stranded	-
J03-00622	6P4C RJ-11 CAT 3 Jack	Yes	Flat & Round	Solid & Stranded	-
J03-00623	6P6C RJ-12 CAT 3 Jack	No	Flat & Round	Solid & Stranded	-
J03-00624	6P6C RJ-12 CAT 3 Jack	Yes	Flat & Round	Solid & Stranded	-
J03-00821	8P8C RJ-45 CAT 3 Jack	No	Flat & Round	Solid & Stranded	-
J03-00822	8P8C RJ-45 CAT 3 Jack	Yes	Flat & Round	Solid & Stranded	-
J03-01021	10P10C RJ-50 CAT 3 Jack	No	Flat & Round	Solid & Stranded	-
J03-01022	10P10C RJ-50 CAT 3 Jack	Yes	Flat & Round	Solid & Stranded	-

DataLink 100e

Category 5E Unshielded RJ-45 Modular Plugs

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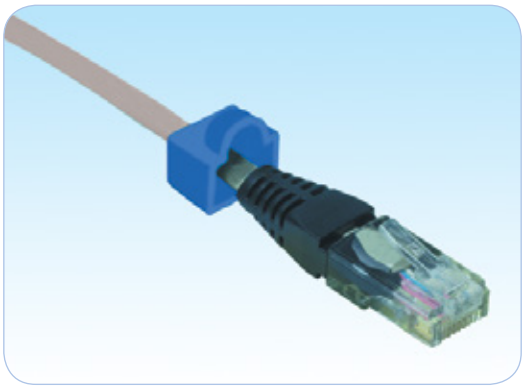

Description

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:

- ☑ 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 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

- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 15, Subpart J, Class A (USA)

SAFETY

- ☑ UL94 V-0 rated plastic materials
- ☑ 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.

TRANSMISSION PROP. & ELECTRICAL SPEC.

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	Conductor	Notes
J5E-00801	8P8C Unshielded RJ-45 CAT5E Plug for Round Cable	Solid	-
J5E-00802	8P8C Unshielded RJ-45 CAT5E Plug for Round Cable	Stranded	-
J5E-00803	8P8C Unshielded RJ-45 CAT5E Plug for Round Cable	Solid & Stranded	-

DataLink 100e

Category 5E Shielded RJ-45 Modular Plugs

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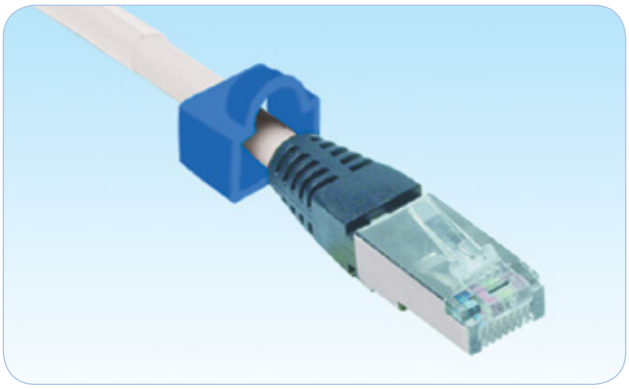

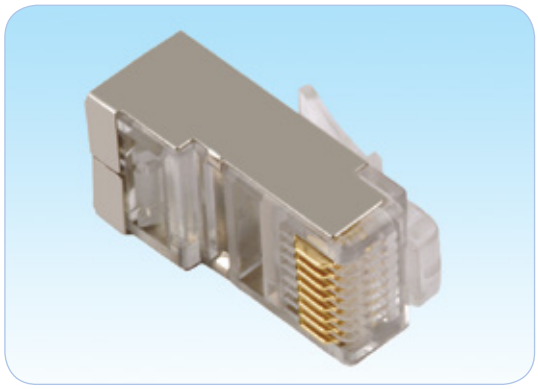

Description

HCS DataLink 100E shielded copper RJ-45 modular plugs series includes a range of high performance 8-position/8-contact (8P8C) plugs conforming to IEC 60603-7-3 (shielded 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. HCS DataLink 100E shielded copper RJ-45 modular plugs are fully shielded with corrosion resistant tin-plated brass casing, providing excellent EMC, minimizing radiation and maximizing noise immunity. When tested in mated position with HCS DataLink 100E shielded 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 shielded RJ-45 plugs are used for patch-cord termination, supporting 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 plugs are supported by the DoubleSafe™ QA program as a part of complete HCS cabling system.
HCS DataLink 100E plugs comply to IEC 60603-7-3 (shielded 100 MHz connectors) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 15, Subpart J, Class A (USA)

SAFETY

- ☑ UL94 V-0 rated plastic materials
- ☑ 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.
- ➔ High quality Overall Shield - 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 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.
Shield Construction	Overall.
Shield Material	Tin-plated brass
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.

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	0.2 Ohm max @ 20C
LCL	66-20·Log(f) 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	Conductor	Notes
J5E-00804	8P8C Shielded RJ-45 CAT5E Plug for Round Cable	Solid	-
J5E-00805	8P8C Shielded RJ-45 CAT5E Plug for Round Cable	Stranded	-
J5E-00806	8P8C Shielded RJ-45 CAT5E Plug for Round Cable	Solid & Stranded	-

DataLink 100e

Category 5E Unshielded RJ-45 Keystone Jacks

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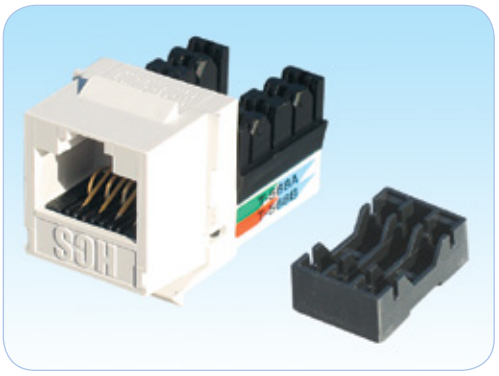


Description

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:

- ☑ 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 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

- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 68

SAFETY

- ☑ UL94 V-0 plastic materials
- ☑ 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.

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

DataLink 100e

Category 5E Unshielded RJ-45 Tool-Less Keystone Jacks

HES Cabling Systems
Connecting Networks™

Description

HCS DataLink 100E patented unshielded copper RJ-45 tool-less keystone jack series includes high performance Category 5E snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-2 (unshielded 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 unshielded 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 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 RJ-45 tool-less keystone jacks comply to IEC 60603-7-2 (unshielded 100 MHz connectors) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 68

SAFETY

- ☑ UL94 V-0 rated plastic material
- ☑ Zero-halogen in LSOH constructions.

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.
- ➔ 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.

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

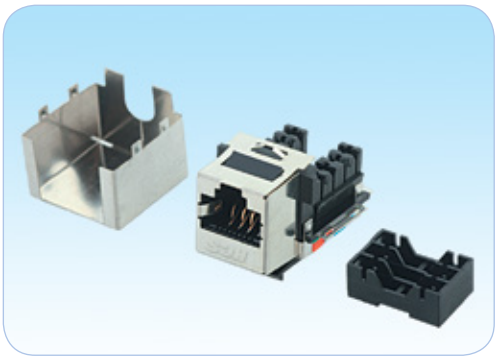
ORDERING INFORMATION

HCS P/N	Description	T568
J5E-00851	8P8C RJ-45 Unshielded Tool-less Keystone Jack CAT 5E	B
J5E-00852	8P8C RJ-45 Unshielded Tool-less Keystone Jack CAT 5E	A
J5E-00853	8P8C RJ-45 Unshielded Tool-less Keystone Jack CAT 5E	Universal

DataLink 100e

Category 5E Shielded RJ-45 Keystone Jacks

HES Cabling Systems
Connecting Networks™



Description

HCS DataLink 100E patented shielded copper RJ-45 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).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 and are fully shielded with high quality, corrosion resistant metal shield case.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 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 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 60603-7-3 (shielded 100 MHz connectors) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 68

SAFETY

- ☑ UL94 V-0 plastic material
- ☑ Zero-halogen in LSOH constructions

Benefits & Features

- ➔ 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.
- ➔ 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.
Overall Shield	Fully shielded corrosion-resistant metal casing.
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.

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	0.1 Ohm @ 1 MHz, 0.2 Ohm @ 10 MHz, 1.6 Ohm @ 80 MHz max.

ORDERING INFORMATION

HCS P/N	Description	Termination Blocks	Punch-Down Tool	T568
J5E-00821	8P8C RJ-45 Shielded Keystone Jack CAT 5E	110 IDC	110 IDC	B
J5E-00822	8P8C RJ-45 Shielded Keystone Jack CAT 5E	110 IDC	110 IDC	A
J5E-00823	8P8C RJ-45 Shielded Keystone Jack CAT 5E	110 IDC	110 IDC	UNI
J5E-00824	8P8C RJ-45 Shielded Keystone Jack CAT 5E	110 IDC	LSA Plus/110 IDC	B
J5E-00825	8P8C RJ-45 Shielded Keystone Jack CAT 5E	110 IDC	LSA Plus/110 IDC	A
J5E-00826	8P8C RJ-45 Shielded Keystone Jack CAT 5E	110 IDC	LSA Plus/110 IDC	UNI

DataLink 100e

Category 5E Shielded RJ-45 Tool-Less Keystone Jacks

HES Cabling Systems
Connecting Networks™

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

- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 68

SAFETY

- ☑ UL94 V-0 rated plastic material
- ☑ Zero-halogen in LSOH constructions.

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.

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	0.1 Ohm @ 1 MHz, 0.2 Ohm @ 10 MHz, 1.6 Ohm @ 80 MHz max.

ORDERING INFORMATION

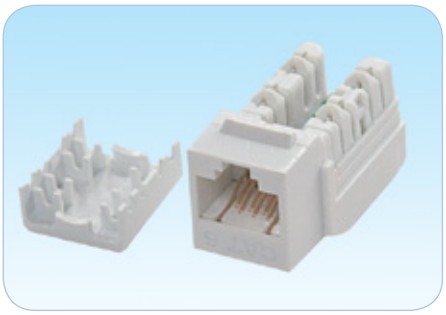
HCS P/N	Description	T568
J5E-00861	8P8C RJ-45 Shielded Tool-less Keystone Jack CAT 5E	B
J5E-00862	8P8C RJ-45 Shielded Tool-less Keystone Jack CAT 5E	A
J5E-00863	8P8C RJ-45 Shielded Tool-less Keystone Jack CAT 5E	Universal

DataLink 250E

Category 6E Unshielded RJ-45 Keystone Jacks

HES Cabling Systems
Connecting Networks™





Description

HCS DataLink 250E patented unshielded copper RJ-45 keystone jack series includes high performance Category 6 snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-4 (unshielded 250 MHz connectors).
HCS DataLink 250E jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.
All HCS DataLink 250E jacks are designed in a 90° or 180° formation and are available with back interconnection of 110 IDC blocks in T568A, T568B or Universal pin/pair assignment. All jacks fully conform to and provide a substantial margin above all ANSI/TIA/568-C.2 and ISO/IEC-11801 (2nd Edition) Category 6 component requirements, tested at the component level and officially verified by ETL.
The HCS Logo and the DataLink 250E Trademark ensure long lasting high-performance and full support of all relevant applications.

Applications

HCS DataLink 250E 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:

- ☑ 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 250E jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 250E jacks are tested and verified as components and they comply to IEC 60603-7-4 (unshielded 250 MHz connectors) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.1
- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europa)
- ☑ FCC Part 15, Subpart J, Class A (US)

SAFETY

- ☑ UL94 V-0 rated plastic materials
- ☑ Zero-halogen in LS0H 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 6 performance - Providing full support to Gigabit Ethernet over Category 6.
- ➔ 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	100gr min. (Using HCS approved plug).
Storage Temperature	-20 to +80C
Plug Insertion Durability	750 mating cycles
Conductor Compatibility Range	22 to 24 AWG, solid or stranded
Standard Color	White RAL 1013. Other colors available upon request.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL
MHz	dB/100m	dB	dB	dB
	Max	Min	Min	Min
1.00	0.02	85.0	84.0	53.0
4.00	0.02	81.0	75.0	54.0
8.00	0.02	78.0	70.0	56.0
10.00	0.03	77.0	68.0	57.0
16.00	0.03	73.0	58.0	58.0
25.00	0.04	70.0	60.1	60.0
31.25	0.04	68.0	59.0	57.0
62.50	0.05	64.0	53.0	44.0
100.00	0.06	60.0	49.0	34.0
200.00	0.06	55.0	43.0	23.0
250.00	0.08	52.0	41.0	20.0

Propagation Delay	2.5 nS max @ 1-250 MHz
Propagation Delay Skew	1.25 nS max @ 1-250 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 @ 1-250 MHz
Transfer Impedance	N/A

ORDERING INFORMATION

HCS P/N	Description	Orientation	Blocks	T568
J6E-00811	8P8C RJ-45 Unshielded Keystone Jack CAT 6E	90°	110 IDC	B
J6E-00812	8P8C RJ-45 Unshielded Keystone Jack CAT 6E	90°	110 IDC	A
J6E-00813	8P8C RJ-45 Unshielded Keystone Jack CAT 6E	90°	110 IDC	UNI
J6E-00871	8P8C RJ-45 Unshielded Keystone Jack CAT 6E	180°	110 IDC	B
J6E-00872	8P8C RJ-45 Unshielded Keystone Jack CAT 6E	180°	110 IDC	A
J6E-00873	8P8C RJ-45 Unshielded Keystone Jack CAT 6E	180°	110 IDC	UNI
J6E-00881	8P8C RJ-45 UTP Keystone Slim Jack CAT 6E	180°	110 IDC	B
J6E-00882	8P8C RJ-45 UTP Keystone Slim Jack CAT 6E	180°	110 IDC	A
J6E-00883	8P8C RJ-45 UTP Keystone Slim Jack CAT 6E	180°	110 IDC	UNI
J6E-00891	8P8C RJ-45 UTP Keystone Slim Jack CAT 6E	90°	110 IDC	B
J6E-00892	8P8C RJ-45 UTP Keystone Slim Jack CAT 6E	90°	110 IDC	A
J6E-00893	8P8C RJ-45 UTP Keystone Slim Jack CAT 6E	90°	110 IDC	UNI

DataLink 250E

Category 6E Unshielded RJ-45 Tool-Less Keystone Jacks

HES Cabling Systems
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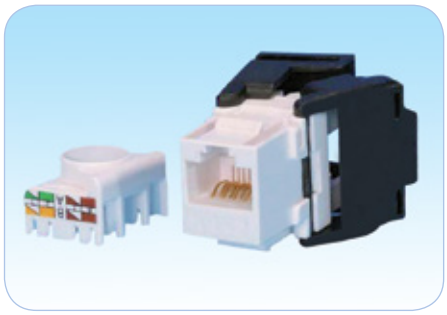


Description

HCS DataLink 250E patented unshielded copper RJ-45 tool-less keystone jack series includes high performance Category 6 snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-4 (unshielded 250 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 250E jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.
All HCS DataLink 250E jacks are designed in a 90° formation and are color-coded for T568B on the wire terminal for ease of installation.
All jacks conform to and provide a substantial margin above ANSI/TIA/568-C.2 and ISO/IEC-11801 (2nd Edition) Category 6 component requirements.
The HCS Logo and the DataLink 250E Trademark ensure long lasting high-performance and full support of all relevant applications.

Applications

HCS DataLink 250E unshielded copper tool-less 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:

- ☑ 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 250E jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system.
HCS DataLink 250E jacks comply to IEC 60603-7-4 (unshielded 250 MHz connectors) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.1
- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europe)
- ☑ FCC Part 15, Subpart J, Class A (US)

SAFETY

- ☑ UL94 V-0 rated plastic materials
- ☑ Zero-halogen in LS0H constructions.

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 180° design - Providing easier access, better and faster wire connection.
- ➔ Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- ➔ Exceeding Category 6 performance - Providing full support to Gigabit Ethernet over Category 6.
- ➔ 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	50µ-inches gold plating over 100µ-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.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL
MHz	dB/100m	dB	dB	dB
	Max	Min	Min	Min
1.00	0.02	85.0	84.0	53.0
4.00	0.02	81.0	75.0	54.0
8.00	0.02	78.0	70.0	56.0
10.00	0.03	77.0	68.0	57.0
16.00	0.03	73.0	58.0	58.0
25.00	0.04	70.0	60.1	60.0
31.25	0.04	68.0	59.0	57.0
62.50	0.05	64.0	53.0	44.0
100.00	0.06	60.0	49.0	34.0
200.00	0.06	55.0	43.0	23.0
250.00	0.08	52.0	41.0	20.0

Propagation Delay	2.5 nS max @ 1-250 MHz
Propagation Delay Skew	1.25 nS max @ 1-250 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 @ 1-250 MHz
Transfer Impedance	N/A

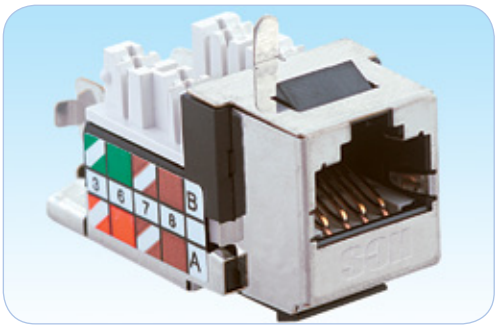
ORDERING INFORMATION

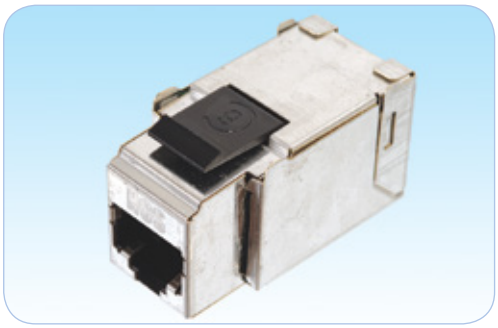
HCS P/N	Description	T568
J6E-00851	8P8C RJ-45 Unshielded Tool-less Keystone Jack CAT 6e	B
J6E-00852	8P8C RJ-45 Unshielded Tool-less Keystone Jack CAT 6e	A
J6E-00853	8P8C RJ-45 Unshielded Tool-less Keystone Jack CAT 6e	Universal

DataLink 250E

Category 6E Shielded RJ-45 Keystone Jacks

HES Cabling Systems
Connecting Networks™





Description

HCS DataLink 250E patented shielded copper RJ-45 keystone jack series includes high performance Category 6 snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-5 (shielded 250 MHz connectors). HCS DataLink 250E jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.All HCS DataLink 250E jacks are designed in a 90° formation and are available with back interconnection of 110 IDC blocks in T568A, T568B or Universal pin/pair assignment.
All jacks fully conform to and provide a substantial margin above all ANSI/TIA/568-C.2 and ISO/IEC-11801 (2nd Edition) Category 6 component requirements, tested at the component level and officially witnessed by ETL.
All jacks are fully shielded with high quality, corrosion resistant metal shield case. The HCS Logo and the DataLink 250E Trademark ensure long lasting high-performance and full support of all relevant applications, including 1000BASE-TX (Gigabit-Ethernet over Categoriy 6).

Applications

HCS DataLink 250E shielded 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:

- ☑ 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 250E jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 250E jacks are tested and ETL verified as components and they comply to IEC 60603-7-5 (shielded 250 MHz connectors) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.1
- ☑ ANSI/TIA/568-C.2
- ☑ ISO/IEC-11801

EMC

- ☑ EN-55022, Class B (Europa)
- ☑ FCC Part 15, Subpart J, Class A (USA)

SAFETY

- ☑ UL94 V-0 rated plastic materials
- ☑ Zero-halogen in LS0H constructions.

Benefits & Features

- ➔ 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 6 performance - Providing full support to Gigabit Ethernet over Category 6.
- ➔ 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.
Overall Shield	Fully shielded corrosion-resistant metal casing.
Jack Contacts Spring Material	High strength phosphor bronze or beryllium copper alloy.
Jack Contacts Plating	1.27 µm gold plating over 2.5 µm nickel or palladium nickel gold composite.
IDC Contacts Material	High strength phosphor bronze or beryllium copper alloy.
IDC Contacts Plating	Tin/lead composite, 5µm min. thickness.
Operating Environmental Conditions	0 to +60C at 5-95% RH (Non condensing)
Storage Environmental Conditions	-40 to +66C at 5-95% RH (Non condensing)
Packaging	50 or 100 units per box.
Plug to Jack Retention Force	49N min.
Plug to Jack Mating Force	9N max. for 8 wire jack.
Terminated Wire Retention Force	Axial pullout force: 9N min. Normal pullout force: 44N min
Insertion/Extraction Durability	750 mating cycles conforming to IEC 603-7 Level A durability.
IDC Termination Durability	200 terminations min. acc to TIA/EIA 568B.2 requirements.
Conductor Compatibility Range	22 to 26 AWG, solid or stranded
Standard Color	White RAL 1013. Other colors available upon request.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL
MHz	dB/100m	dB	dB	dB
	Max	Min	Min	Min
1.00	0.02	85.0	84.0	53.0
4.00	0.02	81.0	75.0	54.0
8.00	0.02	78.0	70.0	56.0
10.00	0.03	77.0	68.0	57.0
16.00	0.03	73.0	58.0	58.0
25.00	0.04	70.0	60.1	60.0
31.25	0.04	68.0	59.0	57.0
62.50	0.05	64.0	53.0	44.0
100.00	0.06	60.0	49.0	34.0
200.00	0.06	55.0	43.0	23.0
250.00	0.08	52.0	41.0	20.0

Propagation Delay	2.5 nS max @ 1-250 MHz
Propagation Delay Skew	1.25 nS max @ 1-250 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 @ 1-250 MHz
Transfer Impedance	0.1 Ohm @ 1 MHz, 0.2 Ohm @ 10 MHz, 1.6 Ohm @ 80 MHz max.

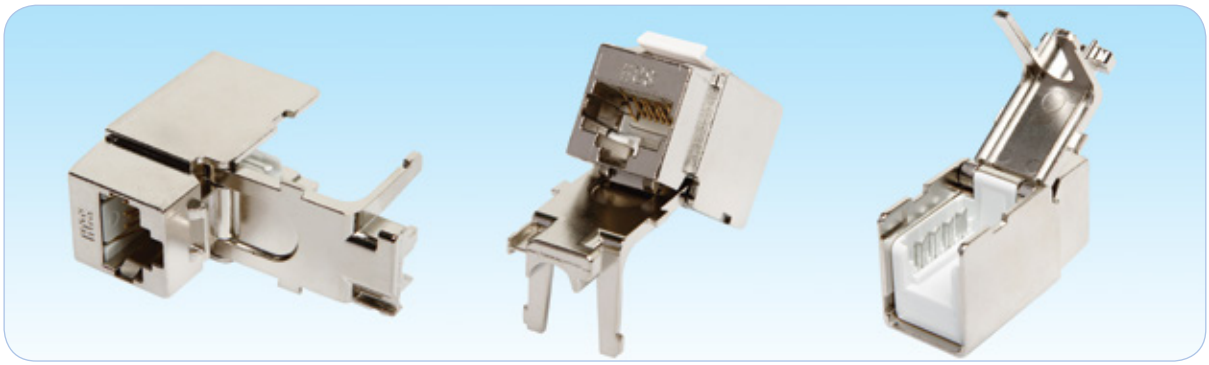
ORDERING INFORMATION

HCS P/N	Description	Blocks	Notes
J6E-00821	8P8C RJ-45 Shielded Keystone Jack CAT 6E	110 IDC	B
J6E-00822	8P8C RJ-45 Shielded Keystone Jack CAT 6E	110 IDC	A
J6E-00823	8P8C RJ-45 Shielded Keystone Jack CAT 6E	110 IDC	UNI

DataLink 250E

Category 6E Shielded Tool-Less RJ-45 Keystone Jacks

HES Cabling Systems
Connecting Networks™



Description

HCS DataLink 250E patented shielded copper RJ-45 tool-less keystone jack series includes high performance Category 6 snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-5 (shielded 250 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 250E jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.
All HCS DataLink 250E jacks are designed in a 90° formation and are color-coded for both T568A and T568B on the wire terminal for ease of installation.
All jacks are fully shielded with high quality, corrosion resistant die-cast metal shield.
All jacks conform to and provide a substantial margin above ANSI/TIA-568-C.2 and ISO/IEC-11801 (2nd Edition) Category 6 component requirements.
The HCS Logo and the DataLink 250E Trademark ensure long lasting high-performance and full support of most applications, including 1GBASE-T (Gigabit-Ethernet).

Applications

HCS DataLink 250E shielded copper tool-less 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:

- ☑ 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 250E jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system.
HCS DataLink 250E tool-less jacks comply to IEC 60603-7-5 (unshielded 250 MHz connectors) and to the following standards:

TRANSMISSION	EMC	SAFETY
☑ ANSI/TIA/568-C.1	☑ EN-55022, Class B (Europa)	☑ UL94 V-0 rated plastic materials
☑ ANSI/TIA/568-C.2	☑ FCC Part 15, Subpart J, Class A (USA)	☑ Zero-halogen in LS0H constructions.
☑ ISO/IEC-11801		

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.
- ➔ High quality corrosion-resistant metal shield casing - Providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation and maximizing noise immunity.
- ➔ Patented 90° design - Providing easier access, better and faster wire connection.
- ➔ Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- ➔ Exceeding Category 6 performance - Providing full support to Gigabit Ethernet on Category 6.
- ➔ Robust and installer-friendly design - Providing reduced installation and operating costs
- ➔ Compatible with 22-24 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.
Overall Shield	Fully shielded corrosion-resistant metal casing.
Jack Contacts Material	50µ-inches gold plating over 100µ-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 24 AWG, solid or stranded

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL
MHz	dB/100m	dB	dB	dB
	Max	Min	Min	Min
1.00	0.02	85.0	84.0	53.0
4.00	0.02	81.0	75.0	54.0
8.00	0.02	78.0	70.0	56.0
10.00	0.03	77.0	68.0	57.0
16.00	0.03	73.0	58.0	58.0
25.00	0.04	70.0	60.1	60.0
31.25	0.04	68.0	59.0	57.0
62.50	0.05	64.0	53.0	44.0
100.00	0.06	60.0	49.0	34.0
200.00	0.06	55.0	43.0	23.0
250.00	0.08	52.0	41.0	20.0

Propagation Delay	2.5 nS max @ 1-250 MHz
Propagation Delay Skew	1.25 nS max @ 1-250 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 @ 1-250 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	Orientation	Notes
J6E-00861	8P8C RJ-45 Shielded Tool-less Keystone Jack CAT 6E	90°	B
J6E-00862	8P8C RJ-45 Shielded Tool-less Keystone Jack CAT 6E	90°	A
J6E-00863	8P8C RJ-45 Shielded Tool-less Keystone Jack CAT 6E	90°	Universal

DataLink 500A

Augmented Category 6 Unshielded RJ-45 Keystone Jacks

HES Cabling Systems
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Description

HCS DataLink 500A patented unshielded copper RJ-45 keystone jack series includes high performance Category 6A snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-41 (unshielded 500 MHz connectors).
HCS DataLink 500A jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.All HCS DataLink 500A jacks are designed in a 90° formation and are available with back interconnection of 110 IDC blocks in universal pin/pair assignment.
All jacks fully conform to and provide a substantial margin above all ANSI/TIA/568-C.2 and IEC 60603-7-41 component requirements, tested at the component level.
The HCS Logo and the DataLink 500A Trademark ensure long lasting high-performance and full support of all present and emerging applications, including 10GBASE-T (10 Gigabit-Ethernet).

Applications

HCS DataLink 500A unshielded copper RJ-45 keystone jacks are used in wall outlets, standard 16 Port 1U or staggered 24 Port 1U blank patch panels and surface box outlets and they fully support all presently available LAN applications, including the following protocols:

- ☑ 10GBASE-T 10 Gigabit Ethernet (IEEE 802.3an)
- ☑ 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 500A jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 500A jacks are tested and verified at the component level. They comply to IEC 60603-7-41 (8-way, unshielded, free and fixed connectors, for data transmission with frequencies up to 500 MHz) and to the following standards:

TRANSMISSION	EMC	SAFETY
☑ ANSI/TIA/568-C.2	☑ EN-55022, Class B (Europa)	☑ UL94 V-0 rated plastic materials
☑ ISO/IEC-11801	☑ FCC Part 15, Subpart J, Class A (USA)	☑ Zero-halogen in LS0H constructions.

Benefits & Features

- ➔ Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- ➔ Patented 90° design - Providing easier access, better and faster wire connection.
- ➔ Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- ➔ Exceeding Category 6A performance - Providing full support to 10 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 Spring Material	High strength phosphor bronze or beryllium copper alloy.
Jack Contacts Plating	1.27 µm gold plating over 2.5 µm nickel or palladium nickel gold composite.
IDC Contacts Material	High strength phosphor bronze or beryllium copper alloy.
IDC Contacts Plating	Tin/lead composite, 5µm min. thickness.
Operating Environmental Conditions	0 to +60C at 5-95% RH (Non condensing)
Storage Environmental Conditions	-40 to +66C at 5-95% RH (Non condensing)
Packaging	75 units per box.
Plug to Jack Retention Force	49N min.
Plug to Jack Mating Force	9N max. for 8 wire jack.
Terminated Wire Retention Force	Axial pullout force: 9N min. Normal pullout force: 44N min
Insertion/Extraction Durability	750 mating cycles conforming to IEC 60603-7 Level A durability.
IDC Termination Durability	200 terminations min. acc to TIA/EIA 568B.2 requirements.
Conductor Compatibility Range	22 to 26 AWG, solid or stranded
Standard Color	White RAL 1013. Other colors available upon request.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL	TCL	EL TCTL	PS ANEXT	PS AFEXT
MHz	dB	dB	dB	dB	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Min	Min
1.00	0.1	75.0	75.0	30.0	40.0	40.0	67.0	67.0
4.00	0.1	75.0	71.1	30.0	40.0	40.0	67.0	67.0
8.00	0.1	75.0	65.0	30.0	40.0	40.0	67.0	67.0
10.00	0.1	74.0	63.1	30.0	40.0	40.0	67.0	67.0
16.00	0.1	69.9	59.0	30.0	40.0	40.0	67.0	67.0
25.00	0.1	66.0	55.1	30.0	40.0	40.0	67.0	67.0
31.25	0.1	64.1	53.2	30.0	38.1	38.1	67.0	67.0
62.50	0.16	58.1	47.2	30.0	32.1	32.1	67.0	67.0
100.00	0.20	54.0	43.1	28.0	28.0	28.0	67.0	67.0
200.00	0.28	48.0	37.1	22.0	22.0	22.0	64.5	61.0
250.00	0.32	46.0	35.1	20.0	20.0	20.0	62.5	59.0
300.00	0.35	42.9	33.6	18.5	18.5	18.5	61.0	57.5
400.00	0.40	37.9	31.1	16.0	16.0	16.0	58.5	55.0
500.00	0.45	34.0	29.1	14.0	14.0	14.0	56.5	53.0

Propagation Delay	2.5 nS max @ 1-500 MHz
Propagation Delay Skew	1.25 nS max @ 1-500 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
Coupling Attenuation	35 dB @ 30 - 100 MHz 35-20log(f/100) dB @ 100 - 1000 MHz

ORDERING INFORMATION

HCS P/N	Description	Blocks	T568
J6A-00811	8P8C RJ-45 Unshielded Augmented Category 6 Keystone Jack	110 IDC	B
J6A-00812	8P8C RJ-45 Unshielded Augmented Category 6 Keystone Jack	110 IDC	A
J6A-00813	8P8C RJ-45 Unshielded Augmented Category 6 Keystone Jack	110 IDC	UNI

DataLink 500A

Augmented Category 6 Shielded RJ-45 Keystone Jacks

HES Cabling Systems
Connecting Networks™

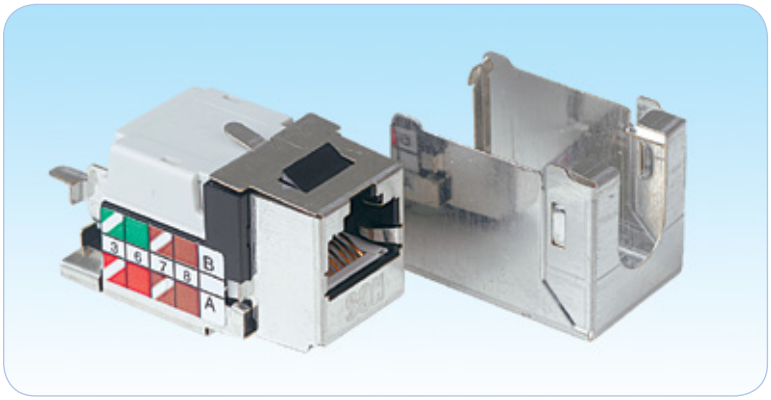
Description

HCS DataLink 500A patented shielded copper RJ-45 keystone jack series includes high performance fully shielded Category 6A snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-51 (shielded 500 MHz connectors).HCS DataLink 500A jacks are designed for fast and easy snap-in and out of wall plates, patch panels and surface box outlets.All HCS DataLink 500A jacks are designed in a 90° formation and are available with back interconnection of 110 IDC blocks in universal pin/pair assignment.All jacks fully conform to and provide a substantial margin above all ANSI/TIA/568-C.2 and IEC 60603-7-51 component requirements, tested at the component level.The HCS Logo and the DataLink 500A Trademark ensure long lasting high-performance and full support of all present and emerging applications, including 10GBASE-T (10 Gigabit-Ethernet)

Applications

HCS DataLink 500A shielded copper RJ-45 keystone jacks are used in wall outlets, patch panels and surface box outlets and they fully support all presently available LAN applications, including the following protocols:

- ☑ 10GBASE-T 10 Gigabit Ethernet (IEEE 802.3an)
- ☑ 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 500A jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 500A jacks are tested and verified at the component level. They comply to IEC 60603-7-51 (8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 500 MHz) and to the following standards:

TRANSMISSION	EMC	SAFETY
☑ ANSI/TIA/568-C.2	☑ EN-55022, Class B (Europa)	☑ UL94 V-0 rated plastic materials
☑ ISO/IEC-11801	☑ FCC Part 15, Subpart J, Class A (USA)	☑ Zero-halogen in LS0H constructions.

Benefits & Features

- ➔ 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 6A performance - Providing full support to 10 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.
Overall Shield	Fully shielded corrosion-resistant metal casing.
Jack Contacts Spring Material	High strength phosphor bronze or beryllium copper alloy.
Jack Contacts Plating	1.27 µm gold plating over 2.5 µm nickel or palladium nickel gold composite.
IDC Contacts Material	High strength phosphor bronze or beryllium copper alloy.
IDC Contacts Plating	Tin/lead composite, 5µm min. thickness.
Operating Environmental Conditions	0 to +60C at 5-95% RH (Non condensing)
Storage Environmental Conditions	-40 to +66C at 5-95% RH (Non condensing)
Packaging	50 units per box.
Plug to Jack Retention Force	49N min.
Plug to Jack Mating Force	9N max. for 8 wire jack.
Terminated Wire Retention Force	Axial pullout force: 9N min. Normal pullout force: 44N min
Insertion/Extraction Durability	750 mating cycles conforming to IEC 60603-7 Level A durability.
IDC Termination Durability	200 terminations min. acc to TIA/EIA 568B.2 requirements.
Conductor Compatibility Range	22 to 26 AWG, solid or stranded
Standard Color	White RAL 1013. Other colors available upon request.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL	TCL	EL TCTL	PS ANEXT	PS AFEXT
MHz	dB	dB	dB	dB	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Min	Min
1.00	0.1	75.0	75.0	30.0	40.0	40.0	67.0	67.0
4.00	0.1	75.0	71.1	30.0	40.0	40.0	67.0	67.0
8.00	0.1	75.0	65.0	30.0	40.0	40.0	67.0	67.0
10.00	0.1	74.0	63.1	30.0	40.0	40.0	67.0	67.0
16.00	0.1	69.9	59.0	30.0	40.0	40.0	67.0	67.0
25.00	0.1	66.0	55.1	30.0	40.0	40.0	67.0	67.0
31.25	0.1	64.1	53.2	30.0	38.1	38.1	67.0	67.0
62.50	0.16	58.1	47.2	30.0	32.1	32.1	67.0	67.0
100.00	0.20	54.0	43.1	28.0	28.0	28.0	67.0	67.0
200.00	0.28	48.0	37.1	22.0	22.0	22.0	64.5	61.0
250.00	0.32	46.0	35.1	20.0	20.0	20.0	62.5	59.0
300.00	0.35	42.9	33.6	18.5	18.5	18.5	61.0	57.5
400.00	0.40	37.9	31.1	16.0	16.0	16.0	58.5	55.0
500.00	0.45	34.0	29.1	14.0	14.0	14.0	56.5	53.0

Propagation Delay	2.5 nS max @ 1-500 MHz
Propagation Delay Skew	1.25 nS max @ 1-500 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
Coupling Attenuation	35-20log(f/100) dB @ 100 - 1000 MHz

ORDERING INFORMATION

HCS P/N	Description	Blocks	T568
J6A-00821	8P8C RJ-45 Shielded Augmented Category 6 Keystone Jack	110 IDC	B
J6A-00822	8P8C RJ-45 Shielded Augmented Category 6 Keystone Jack	110 IDC	A
J6A-00823	8P8C RJ-45 Shielded Augmented Category 6 Keystone Jack	110 IDC	UNI

DataLink 500A

Augmented Category 6 Shielded Tool-Less RJ-45 Keystone Jacks

HES Cabling Systems
Connecting Networks™

Description

HCS DataLink 500A Tool-Less shielded copper RJ-45 keystone jack series includes high performance fully shielded Category 6A snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-51 (shielded 500 MHz connectors).
HCS DataLink 500A tool-less jacks are designed for simple and reliable termination, fast and easy snap-in and out of wall plates, patch panels and surface box outlets.
HCS DataLink 500A tool-less jacks are designed in a 180° orientation and are available with back interconnection of 110 IDC blocks in universal pin/pair assignment. All jacks fully conform to and provide a substantial margin above all ANSI/TIA-568-C.2 and IEC 60603-7-51 component requirements, tested at the component level.
The HCS Logo and the DataLink 500A Trademark ensure long lasting high-performance and full support of all present and emerging applications, including 10GBASE-T (10 Gigabit-Ethernet).

Applications

HCS DataLink 500A shielded tool-less copper RJ-45 keystone jacks are used in wall outlets, patch panels and surface box outlets and they fully support all presently available LAN applications, including the following protocols:

- ☑ 10GBASE-T 10 Gigabit Ethernet
- ☑ 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 500A tool-less jacks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 500A jacks are tested and verified at the component level. They comply to IEC 60603-7-51 (8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 500 MHz) and to the following standards:

TRANSMISSION

- ☑ ANSI/TIA/568-C.2 CAT 6A
- ☑ ISO/IEC-11801 CAT 6A

EMC

- ☑ EN-55022, Class B (Europa)
- ☑ FCC Part 15, Subpart J, Class A (USA)

SAFETY

- ☑ UL94 V-0 rated plastic materials
- ☑ Zero-halogen in LS0H constructions.

Benefits & Features

- ➔ Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- ➔ Patented 180° design - Providing perfect termination with minimum distance to the IDC.
- ➔ High quality corrosion-resistant thick die-cast shield - 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 6A performance - Providing full support to 10 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.
Overall Shield	Fully shielded corrosion-resistant die-cast zinc-alloy casing.
Jack Contacts Spring Material	High strength phosphor bronze alloy.
Jack Contacts Plating	1.27 µm gold plating over 5µm nickel.
IDC Contacts Material	High strength phosphor bronze alloy.
IDC Contacts Plating	Pure SN alloy, 5µm min. thickness.
Operating Environmental Conditions	-10 to +60C at 5-93% RH (Non condensing)
Storage Environmental Conditions	-40 to +70C at 5-93% RH (Non condensing)
Packaging	50 or 100 units per box.
Plug to Jack Retention Force	50N min for 60 sec..
Plug to Jack Mating Force	9N max. for 8 wire jack.
Terminated Wire Retention Force	Axial pullout force: 9N min. Normal pullout force: 44N min
Insertion/Extraction Durability	750 mating cycles conforming to IEC 60603-7 Level A durability
IDC Termination Durability	200 terminations min. acc to TIA/EIA 568B.2 requirements.
Conductor Compatibility Range	22 to 26 AWG, solid or stranded
Standard Color	White RAL 1013.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	FEXT	RL	TCL	EL TCTL	PS ANEXT	PS AFEXT
MHz	dB	dB	dB	dB	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Min	Min
1.00	0.1	75.0	75.0	30.0	40.0	40.0	67.0	67.0
4.00	0.1	75.0	71.1	30.0	40.0	40.0	67.0	67.0
8.00	0.1	75.0	65.0	30.0	40.0	40.0	67.0	67.0
10.00	0.1	74.0	63.1	30.0	40.0	40.0	67.0	67.0
16.00	0.1	69.9	59.0	30.0	40.0	40.0	67.0	67.0
25.00	0.1	66.0	55.1	30.0	40.0	40.0	67.0	67.0
31.25	0.1	64.1	53.2	30.0	38.1	38.1	67.0	67.0
62.50	0.16	58.1	47.2	30.0	32.1	32.1	67.0	67.0
100.00	0.20	54.0	43.1	28.0	28.0	28.0	67.0	67.0
200.00	0.28	48.0	37.1	22.0	22.0	22.0	64.5	61.0
250.00	0.32	46.0	35.1	20.0	20.0	20.0	62.5	59.0
300.00	0.35	42.9	33.6	18.5	18.5	18.5	61.0	57.5
400.00	0.40	37.9	31.1	16.0	16.0	16.0	58.5	55.0
500.00	0.45	34.0	29.1	14.0	14.0	14.0	56.5	53.0

Propagation Delay	2.5 nS max @ 1-250 MHz
Propagation Delay Skew	1.25 nS max @ 1-250 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
Coupling Attenuation	35-20Log(f/100) dB@ 100-1000 MHz

ORDERING INFORMATION

HCS P/N	Description	Blocks	T568
J6A-00824	8P8C RJ-45 Shielded Category 6A Tool-less 180° Keystone Jack	110 IDC	B
J6A-00825	8P8C RJ-45 Shielded Category 6A Tool-less 180° Keystone Jack	110 IDC	A
J6A-00826	8P8C RJ-45 Shielded Category 6A Tool-less 180° Keystone Jack	110 IDC	UNI