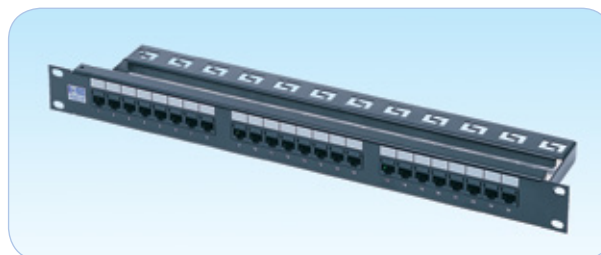
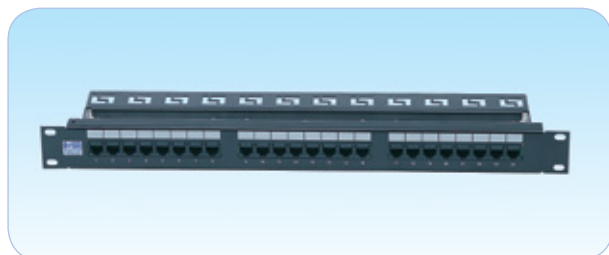




Category 6E Unshielded RJ-45 Copper Straight Patch Panels (Modules)



Description

HCS DataLink 250E unshielded copper RJ-45 patch panel series includes high performance Enhanced Category 6, 24 ports panels specially designed for structured premise cabling in local area networks (LANs).

HCS DataLink 250E panels are available with 3 fixed 8-port PCB units, providing 24, 48 or 96 ports with back interconnection of special LSA-Plus/110 IDC combination blocks. All panels 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 as components and officially witnessed by ETL.

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 Category 6).

Applications

HCS DataLink 250E unshielded copper RJ-45 patch panels are used for horizontal distribution or equipment terminations in telecommunications rooms and for interconnection terminations in consolidation points, and they fully support all relevant LAN applications, including the following protocols:

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

Qualifications and Approvals

HCS DataLink 250E panels are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system.

HCS DataLink 250E panels comply to the following standards:

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

Benefits & Features

- Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- Integrated full installation accessories (supplied free of charge), including labels and icons, clip organizers and T-raps - Providing a simple and elegant cable termination and identification.
- Optional plastic front panels - Providing custom color selection.
- Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- Optional back-side cable management with clip organizer and trap connection - Providing simple and easy cable handling.
- Exceeding Category 6 performance - Providing full support to Gigabit Ethernet over Category 5E and Category 6 cabling systems.
- High quality metal casing - Providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation and maximizing noise immunity.
- Robust and installer-friendly design - Providing reduced installation and operating costs
- Modular and expandable comprehensive product range - Providing up to 48 ports in a single panel.
- Keystone Jack optional patch panels - Providing a custom design with total flexibility.
- Compatible with 24-22 AWG solid 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

Wire Size Range	22 to 26 AWG, Solid or stranded (7)
Material of Construction	Galvanized Steel.
Paint and Standard Color	Black, Powder paint finish or plastic front.
Connector Module Holder	High impact, Flame-retardant plastic compound, UL 94 V-0.
Housing Material - Jack & IDC	High impact FR plastic rated UL 94 V-0.
Jack Spring Contact Coating	1.27µm (50µ-Inch) hard Gold over 2.54µm (100µ-Inch) Nickel plating
Plug Retention Force	14 Kgf (140N) min.
Plug to Jack Contact Force	100 grams min. (using HCS approved plug).
IDC Terminations Cycles	200 min.
IDC Type	Gas tight
Plug Insertion Durability	750 mating cycles
Storage Temperature Range	-40 to +70C
Operation Conditions	-20 to +60C at 0-90% RH (Non condensing)
Packaging	One unit per box.

Category 6E Unshielded RJ-45 Copper Straight Patch Panels (Modules)



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	100 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	Blocks	Units	Size		T568
				mm	Inch	
P6E-02401-1U	24 port RJ 45 Unshielded CAT 6E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	B
P6E-02402-1U	24 port RJ 45 Unshielded CAT 6E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	A
P6E-02403-1U	24 port RJ 45 Unshielded CAT 6E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	UNI
P6E-04801-2U	48 port RJ 45 Unshielded CAT 6E 19" Patch Panel	110 IDC	2u	89.0x483	3.50x19	B
P6E-04802-2U	48 port RJ 45 Unshielded CAT 6E 19" Patch Panel	110 IDC	2u	89.0x483	3.50x19	A
P6E-04803-2U	48 port RJ 45 Unshielded CAT 6E 19" Patch Panel	110 IDC	2u	89.0x483	3.50x19	UNI