

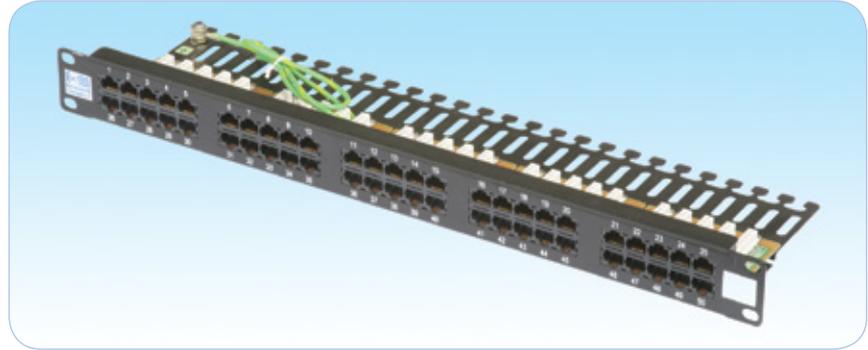
Description

HCS DataLink 16 unshielded copper 25 port and 50 port RJ-45 patch panel is a high performance Category 3 panel, made with 5 modules of fixed 5 or 10-port PCB units in 1U. The back interconnections are available in 110 IDC or LSA-Plus blocks with 6-3 and 4-5 pairs terminations. The panel fully conform to and provide a substantial margin above all ANSI/TIA/568-C.2 Category 3 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
- ☑ ISDN Basic and Primary Access
- ☑ 1BASE-5 Starlan
- ☑ ISALAN
- ☑ ITU V.21 and X.11



Qualifications and Approvals

HCS DataLink 16 Panels are tested and verified for full compliance with the following standard:

- ➔ Category 3 according to ANSI/TIA/568-C.2

TRANSMISSION

- ☑ ANSI/TIA/EIA-568-C.2

EMC

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

SAFETY

- ☑ UL94 V-0 rated plastic materials

Benefits & Features

- ➔ Exceptional material properties and design - Providing a most reliable termination.
- ➔ 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.

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.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS @ 20C

FREQ.	Insertion Loss	NEXT	Propagation Delay	2.5 nS max @ 1-16 MHz
MHz	dB/100m	dB	Propagation Delay Skew	1.25 nS max @ 1-16 MHz
	Max	Min	Current Rating	1.5 A max.
1.0	0.1	58.0	Contact Resistance	20 mOhm max (per contact)
2.0	0.1	52.0	Input/Output Resistance	200 mOhm max.
3.0	0.1	48.4	Input/Output Resistance Unbalance	50 mOhm max.
4.0	0.2	46.0	Voltage Rating	230 Vrms
8.0	0.3	39.9	Dielectric Strength	1000 Volts rms for 1 minute
10.0	0.3	38.0	Insulation Resistance	10 MegaOhm min @ 500 Vdc
12.0	0.3	36.4	DC Resistance	0.2 Ohm max.
14.0	0.3	35.1	LCL	66-20-Log(f) dB min @ 1-16 MHz
16.0	0.4	33.9	IDC Interface Resistance	0.5 mOhm max.

ORDERING INFORMATION

HCS P/N	Description	Blocks	Units	Size		Pairs Per Port
				mm	Inch	
P03-02503-1U	25 port RJ-45 Unshielded CAT 3 19" Patch Panel	LSA-Plus	1u	44.5x483	1.75x19	2
P03-05003-1U	50 port RJ-45 Unshielded CAT 3 19" Patch Panel	LSA-Plus	1u	44.5x483	1.75x19	2
P03-05004-1U	50 port RJ-45 Unshielded CAT 3 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	2

Description

HCS DataLink 100E unshielded copper RJ-45 patch panel series includes a wide range of high performance Category 5E panels, ranging from 24 to 72 ports, specially designed for structured premise cabling in local area networks (LANs).

HCS DataLink 100E panels are available with fixed 6-port PCB units, providing 24, 48 or 72 ports. HCS DataLink 100E panels are available with 110 back interconnection blocks. All panels fully conform to and provide a substantial margin above all 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 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
- ✓ 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 panels are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 100E panels comply to the following standards:

TRANSMISSION

- ✓ ANSI/TIA/EIA-568-A-5
- ✓ 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 plastic materials
- ✓ Zero-halogen in LSOH constructions.

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 5E performance - Providing full support to Gigabit Ethernet.
- ➔ 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 72 ports in a single panel.
- ➔ 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

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.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss		NEXT		FEXT		RL	
	dB/100m		dB		dB		dB	
MHz	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	Blocks	Units	Size		T568
				mm	Inch	
P5E-02401-1U	24 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	B
P5E-02402-1U	24 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	A
P5E-02403-1U	24 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	UNI
P5E-04801-2U	48 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	2u	89x483	3.5x19	B
P5E-04802-2U	48 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	2u	89x483	3.5x19	A
P5E-04803-2U	48 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	2u	89x483	3.5x19	UNI
P5E-04805-1U	48 port RJ-45 Unshielded High-Density CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	UNI
P5E-07201-3U	72 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	3u	133.5x483	5.25x19	B
P5E-07202-3U	72 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	3u	133.5x483	5.25x19	A
P5E-07203-3U	72 port RJ-45 Unshielded CAT5E 19" Patch Panel	110 IDC	3u	133.5x483	5.25x19	UNI



Description

HCS DataLink 100E shielded copper RJ-45 patch panel series includes high performance Category 5E, 24-port panels, specially designed for structured premise cabling in local area networks (LANs).

HCS DataLink 100E shielded RJ-45 panels are available with a single Overall Shielded fixed PCB unit, providing 24 ports in a 1U construction with two optional back interconnection blocks: 110 IDC blocks or LSA-Plus blocks.

All panels fully conform to and provide a substantial margin above all ANSI/TIA/568-C.2 Category 5E, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition) requirements and outstanding EMC.

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 patch panels are used for horizontal distribution or equipment terminations in telecommunications rooms and for interconnection terminations in consolidation points in noisy environments, 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 panels are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 100E panels comply to the following standards:

TRANSMISSION

- ANSI/TIA/EIA-568-A-5 (November 1999)
- 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 plastic materials
- Zero-halogen in LSOH constructions.

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 5E performance - Providing full support to Gigabit Ethernet.
- ➔ 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
- ➔ 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

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.

TRANSMISSION AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss		NEXT		FEXT		RL	
	dB/100m		dB		dB		dB	
MHz	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
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	Blocks	Units	Size		T568
				mm	Inch	
P5E-02407-1U	24 port RJ-45 Shielded CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	B
P5E-02408-1U	24 port RJ-45 Shielded CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	A
P5E-02409-1U	24 port RJ-45 Shielded CAT5E 19" Patch Panel	110 IDC	1u	44.5x483	1.75x19	UNI
P5E-02410-1U	24 port RJ-45 Shielded CAT5E 19" Patch Panel	LSA Plus	1u	44.5x483	1.75x19	B
P5E-02411-1U	24 port RJ-45 Shielded CAT5E 19" Patch Panel	LSA Plus	1u	44.5x483	1.75x19	A
P5E-02412-1U	24 port RJ-45 Shielded CAT5E 19" Patch Panel	LSA Plus	1u	44.5x483	1.75x19	UNI

Description

HCS 110 Wiring Blocks provide a dependable, long term system to support data and voice applications.

HCS DataLink 100E Category 5E 110 blocks offer an easy-to-install and economical solution for network managers. They are available in a number of different configurations for specific connectivity applications. To run cable behind the blocks or for wall mounting, the 100 pair and 300 pair blocks are available with standoff legs while the 100 pair blocks are offered in a low profile style without legs.

Field installation kits are available to minimize labor and time. These kits include 110 wiring blocks with standoff legs, 4 or 5 pair clips, and identification label holders with white labels.

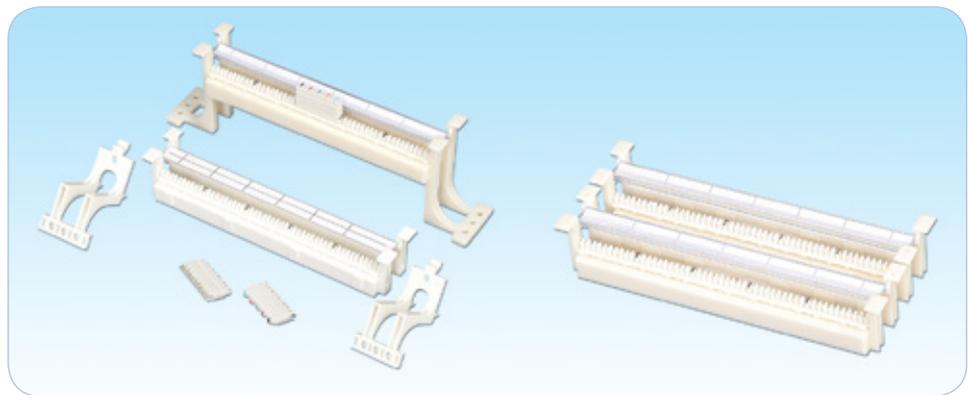
100 pair, 200 pair and 300 pair blocks are available in rack mountable versions, for applications that require fastening a 110 block to a 19" rack or cabinet. All HCS DataLink 100E 110 Wiring Blocks fully conform to the transmission requirements of ANSI/TIA/568-C.2 Category 5E, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition).

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 110 Wiring Blocks 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 110 Wiring Blocks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 100E 110 Wiring Blocks comply 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 materials
- ✓ Zero-halogen in LSOH constructions.

Benefits & Features

- ➔ Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- ➔ 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

Material	High impact, Flame-retardant plastic compound, UL 94 V-0.
Environmental Conditions	-40 to +60C at 0-90% RH (Non condensing)
Storage Temperature	-20 to +80C
Conductor Compatibility Range	22 to 26 AWG, 0.40-0.80 mm, solid or stranded
Insulation OD Compatibility	0.70-1.50 mm
Number of Re-terminations	50 min.
Contact Material	Brass alloy
Contact Coating	3-6µm Silver
Standard Color	White RAL 1013. Other colors available upon request.
Housing Material	PBT
Insulation Resistance	5·10 ⁴ MOhm min.
Volume Resistivity	10 MOhm min.
Dielectric Strength	2 Kv rms min.

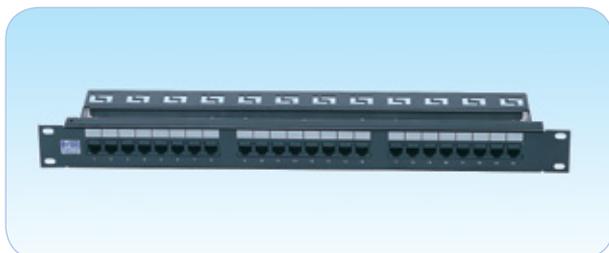
Category 5E Unshielded Wall Mount & Rack Mount 110 Wiring Blocks

DataLink 100e

ORDERING INFORMATION

HCS P/N	Description	Type	Notes
110 Wall Mount Wiring Blocks			
C5E-05001	50 Pair Category 5E Unshielded Wall Mount 110 Wiring Block Base	No legs	
C5E-05002	50 Pair Category 5E Unshielded Wall Mount 110 Wiring Block Base	With legs	
C5E-10001	100 Pair Category 5E Unshielded Wall Mount 110 Wiring Block Base	No legs	
C5E-10002	100 Pair Category 5E Unshielded Wall Mount 110 Wiring Block Base	With legs	
C5E-30001	300 Pair Category 5E Unshielded Wall Mount 110 Wiring Block Base	No legs	
C5E-30002	300 Pair Category 5E Unshielded Wall Mount 110 Wiring Block Base	With legs	
C00-05001	Legs for 50 Pair Wall Mount 110 Wiring Block Base P/N C5E-05001	-	
C00-10001	Legs for 100 Pair Wall Mount 110 Wiring Block Base P/N C5E-10001	-	
C00-30001	Legs for 300 Pair Wall Mount 110 Wiring Block Base P/N C5E-30001	-	
110 Wall Mount Wiring Blocks Kits			
C5E-05011	50 Pair Category 5E Unshielded Wall Mount 110 Wiring Block plus 10xC5E-00461 connectors and 2xC5E-00561 connectors	No legs	Includes labels strips & label strip holders
C5E-05012	50 Pair Category 5E Unshielded Wall Mount 110 Wiring Block plus 10xC5E-00461 connectors and 2xC5E-00561 connectors	With legs	Includes labels strips & label strip holders
C5E-10011	100 Pair Category 5E Unshielded Wall Mount 110 Wiring Block plus 20xC5E-00461 connectors and 4xC5E-00561 connectors	No legs	Includes labels strips & label strip holders
C5E-10012	100 Pair Category 5E Unshielded Wall Mount 110 Wiring Block plus 20xC5E-00461 connectors and 4xC5E-00561 connectors	With legs	Includes labels strips & label strip holders
C5E-30011	300 Pair Category 5E Unshielded Wall Mount 110 Wiring Block plus 60xC5E-00461 connectors and 12xC5E-00561 connectors	No legs	Includes labels strips & label strip holders
C5E-30012	300 Pair Category 5E Unshielded Wall Mount 110 Wiring Block plus 60xC5E-00461 connectors and 12xC5E-00561 connectors	With legs	Includes labels strips & label strip holders
110 Rack Mount Wiring Blocks			
C5E-10021	100 Pair Category 5E Unshielded Rack Mount 110 Wiring Block		
C5E-20021	200 Pair Category 5E Unshielded Rack Mount 110 Wiring Block		
C5E-30021	300 Pair Category 5E Unshielded Rack Mount 110 Wiring Block		
110 Rack Mount Wiring Blocks Kits			
C5E-10031	100 Pair Category 5E Unshielded Rack Mount 110 Wiring Block plus 20xC5E-00461 connectors and 4xC5E-00561 connectors		
C5E-20031	200 Pair Category 5E Unshielded Rack Mount 110 Wiring Block plus 40xC5E-00461 connectors and 8xC5E-00561 connectors		
C5E-30031	300 Pair Category 5E Unshielded Rack Mount 110 Wiring Block plus 60xC5E-00461 connectors and 12xC5E-00561 connectors		
110 Rack Mount Wiring Blocks with Wire Management			
C5E-10041	100 Pair Category 5E Unshielded Rack Mount 110 Wiring Block		
C5E-20041	200 Pair Category 5E Unshielded Rack Mount 110 Wiring Block		
C5E-30041	300 Pair Category 5E Unshielded Rack Mount 110 Wiring Block		
110 Rack Mount Wiring Blocks Kits with Wire Management			
C5E-10051	100 Pair Category 5E Unshielded Rack Mount 110 Wiring Block plus 20xC5E-00461 connectors and 4xC5E-00561 connectors		
C5E-20051	200 Pair Category 5E Unshielded Rack Mount 110 Wiring Block plus 40xC5E-00461 connectors and 8xC5E-00561 connectors		
C5E-30051	300 Pair Category 5E Unshielded Rack Mount 110 Wiring Block plus 60xC5E-00461 connectors and 12xC5E-00561 connectors		
110 IDC			
C5E-00461	4 Pair Category 5E IDC		
C5E-00561	5 Pair Category 5E IDC		
110 Connectors			
C5E-00171	1 Pair 110 Connector		
C5E-00271	2 Pair 110 Connector		
C5E-00371	3 Pair 110 Connector		
C5E-00471	4 Pair 110 Connector		
110 Standard Terminated Cords			
C5E-00180-XX	1 Pair 110 to 110 Connector		
C5E-00280-XX	2 Pair 110 to 110 Connector		
C5E-00380-XX	3 Pair 110 to 110 Connector		
C5E-00480-XX	4 Pair 110 to 110 Connector		
C5E-00190-XX	1 Pair 110 to RJ-45 Connector		
C5E-00290-XX	2 Pair 110 to RJ-45 Connector		
C5E-00390-XX	3 Pair 110 to RJ-45 Connector		
C5E-00490-XX	4 Pair 110 to RJ-45 Connector		

Standard Color (0): Light Gray RAL 7035. Other colors available for selection from Color Table No. 6.
-XX designates the cord length in decimeters (10 -> 1m cord, 00 -> 10m cord).



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:

- | | | |
|---|---|---|
| <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 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
<input checked="" type="checkbox"/> ANSI/TIA/568-C.1	<input checked="" type="checkbox"/> EN-55022, Class B (Europe)	<input checked="" type="checkbox"/> UL94 V-0 rated plastic materials
<input checked="" type="checkbox"/> ANSI/TIA/568-C.2	<input checked="" type="checkbox"/> FCC Part 15, Subpart J, Class A (US)	<input checked="" type="checkbox"/> Zero-halogen in LSOH constructions.
<input checked="" type="checkbox"/> 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.

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

Description

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

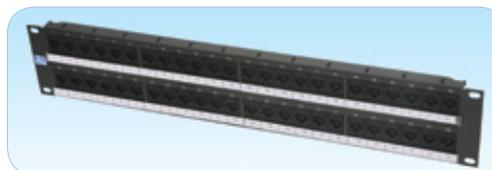
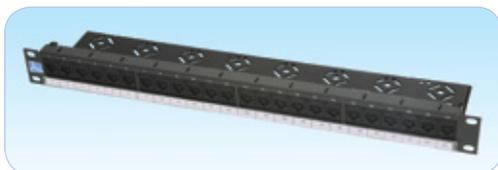
HCS DataLink 250E straight patch panels are ideal for data-centers and installations of high density or which utilize extensive side and end-of-the-rack cable management. The IDC section consists of V-shaped contacts that flex (not fatigue) when terminated. Each RJ45 port features a patented spring loaded shutter and can be Color Coded to match jack outlets with the use of optional port icons. Offering both front and rear labeling options, the patch panel is constructed of cold-rolled steel for additional strength and durability. 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 at the component level.

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 straight patch panels are mainly used for horizontal distribution or equipment terminations in data-centers, dense telecommunications rooms and for interconnection terminations in consolidation points, and they fully support all relevant LAN applications, including the following protocols:

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



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 250 panels are tested at the component level and they comply 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 LSOH constructions.

Benefits & Features

- Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- Exceeding Category 6 performance - Providing full support to Gigabit Ethernet over Category 5E and Category 6 cabling systems.
- Robust and installer-friendly design - Providing reduced installation and operating costs.
- Compatible with 22-24 AWG solid conductors - Providing support to a wider range of cabling types.
- Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.
- Each port features the patented spring-loaded shutter prevents incomplete mating & protects from dust and contaminants.
- Patented IDC V-shaped contacts that flex (not fatigue) when terminated.
- Features pointed IDC towers to speed termination and enhance cable retention.
- Dual color-coding allows for 568 A/B wiring configuration.
- Front and rear port labeling (port sequence 1-48) as well as panel identification label.
- 4 x 6 ganged jack configuration.
- Individually removable patch panel ports.
- Removable cable management shelves ensure bend radius compliance.
- Can be terminated using industry standard punch-down tools.
- RJ45 port which is RJ-11 compatible.
- Molded category identification on each port face as well as optional port identification icons.

GENERAL PROPERTIES

Wire Size Range	22 to 24 AWG, Solid conductors.
Material of Construction	CRS (Cold rolled steel), 1.5mm thickness.
Paint and Standard Color	Black or Gray.
Plastic parts	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	Phosphor Bronze with 50G* hard Gold over 100G* Nickel plating
Plug Retention Force	50N min.
Plug to Jack Contact Force	100 grams min. (using HCS approved plug).
IDC Terminations Cycles	20 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.

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) - Initial Contact Resistance: 2.5 mOhm.
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-02405-1UC	24 port RJ-45 Unshielded Straight CAT 6E 19" Patch Panel	110 IDC	1U	44.5x483	1.75x19	UNI
P6E-04805-2UC	48 port RJ-45 Unshielded Straight CAT 6E 19" Patch Panel	110 IDC	2U	89x483	3.5x19	UNI

The letter C shall be replaced by a number or letter depicting the port color or color combination.
Please contact HCS sales rep for available options.

Description

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

HCS DataLink 250E Angled Patch Panels are ideal for data-centers and installations of high density or which utilize extensive side and end-of-the-rack cable management. The angled feature provides enhanced port access and minimizes patch cord bend radius to the rack. The IDC section consists of V-shaped contacts that flex (not fatigue) when terminated. Each RJ45 port features a patented spring-loaded shutter and can be Color Coded to match jack outlets with the use of optional port icons. Offering both front and rear labeling options, the patch panel is constructed of cold-rolled steel for additional strength and durability.

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 at the component level.

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 Angled patch panels are mainly used for horizontal distribution or equipment terminations in data-centers, dense telecommunications rooms and for interconnection terminations in consolidation points, and they fully support all relevant LAN applications, including the following protocols:

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



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 250 panels are tested at the component level and they comply to the following standards:

TRANSMISSION	EMC	SAFETY
<input checked="" type="checkbox"/> ANSI/TIA/568-C.1	<input checked="" type="checkbox"/> EN-55022, Class B (Europa)	<input checked="" type="checkbox"/> UL94 V-0 rated plastic materials
<input checked="" type="checkbox"/> ANSI/TIA/568-C.2	<input checked="" type="checkbox"/> FCC Part 15, Subpart J, Class A (US)	<input checked="" type="checkbox"/> Zero-halogen in LSOH constructions.
<input checked="" type="checkbox"/> ISO/IEC-11801		

Benefits & Features

- Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- Exceeding Category 6 performance - Providing full support to Gigabit Ethernet over Category 5E and Category 6 cabling systems.
- Robust and installer-friendly design - Providing reduced installation and operating costs
- Compatible with 22-24 AWG solid conductors - Providing support to a wider range of cabling types.
- Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.
- Each port features the patented spring-loaded shutter prevents incomplete mating & protects from dust and contaminants.
- Patented IDC V-shaped contacts that flex (not fatigue) when terminated.
- Features pointed IDC towers to speed termination and enhance cable retention.
- Dual color-coding allows for 568 A/B wiring configuration.
- Front and rear port labeling (port sequence 1-48) as well as panel identification label.
- 4 x 6 ganged jack configuration.
- Individually removable patch panel ports.
- Removable cable management shelves ensure bend radius compliance.
- Can be terminated using industry standard punch-down tools.
- RJ45 port which is RJ-11 compatible.
- Molded category identification on each port face as well as optional port identification icons.

GENERAL PROPERTIES

Wire Size Range	22 to 24 AWG, Solid conductors.
Material of Construction	CRS (Cold rolled steel), 1.5mm thickness.
Paint and Standard Color	Black or Gray.
Plastic parts	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	Phosphor Bronze with 50G" hard Gold over 100G" Nickel plating
Plug Retention Force	50N 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.

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) Initial Contact Resistance: 2.5 mOhm.
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-02404-1U	24 port RJ-45 Unshielded Angled CAT 6E 19" Patch Panel	110 IDC	1U	44.5x483	1.75x19	UNI
P6E-04804-2U	48 port RJ-45 Unshielded Angled CAT 6E 19" Patch Panel	110 IDC	2U	89x483	3.5x19	UNI

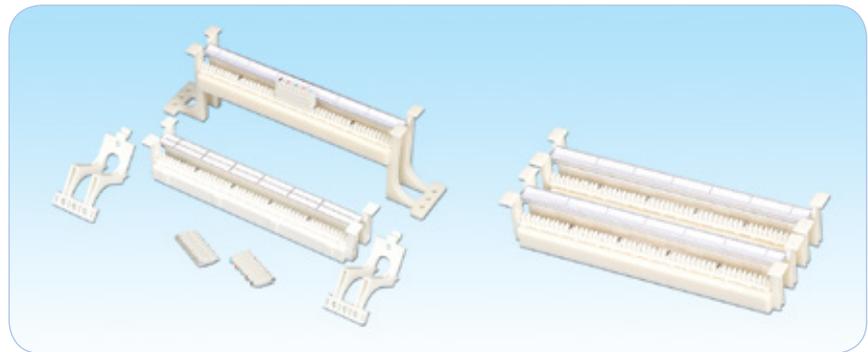
Description

HCS 110 Wiring Blocks provide a dependable, long term system to support data and voice applications. HCS DataLink 250 Category 6 110 blocks offer an easy-to-install and economical solution for network managers. They are available in a number of different configurations for specific connectivity applications. To run cable behind the blocks or for wall mounting, the 96 pair and 288 pair blocks are available with standoff legs while the 96 pair blocks are offered in a low profile style without legs. Field installation kits are available to minimize labor and time. These kits include 110 wiring blocks with standoff legs, 4 or 5 pair clips, and identification label holders with white labels. 96 pair, 192 pair and 288 pair blocks are available in rack mountable versions, for applications that require fastening a 110 block to a 19" rack or cabinet. All HCS DataLink 250 110 Wiring Blocks fully conform to the transmission requirements of ANSI/TIA/568-C.2 Category 6, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition). The HCS Logo and the DataLink 250 Trademark ensure long lasting high-performance and full support of all relevant applications.

Applications

HCS DataLink 250 110 Wiring Blocks 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 250 110 Wiring Blocks are supported by the Century™ Lifetime Warranty and by the DoubleSafe™ QA program as a part of complete HCS cabling system. HCS DataLink 250 110 Wiring Blocks comply 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 materials
- ☑ Zero-halogen in LSOH constructions.

Benefits & Features

- ➔ Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- ➔ Detailed installation manual in English and Turkish - Providing clear and comprehensive instructions.
- ➔ Exceeding Category 6 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

Material	High impact, Flame-retardant plastic compound, UL 94 V-0.
Environmental Conditions	-40 to +60C at 0-90% RH (Non condensing)
Storage Temperature	-20 to +80C
Conductor Compatibility Range	22 to 26 AWG, 0.40-0.80 mm, solid or stranded
Insulation OD Compatibility	0.70-1.50 mm
Number of Re-terminations	50 min.
Contact Material	Brass alloy
Contact Coating	3-6µm Silver
Standard Color	White RAL 1013. Other colors available upon request.
Housing Material	PBT
Insulation Resistance	5·10 ⁴ MOhm min.
Volume Resistivity	10 MOhm min.
Dielectric Strength	2 Kv rms min.

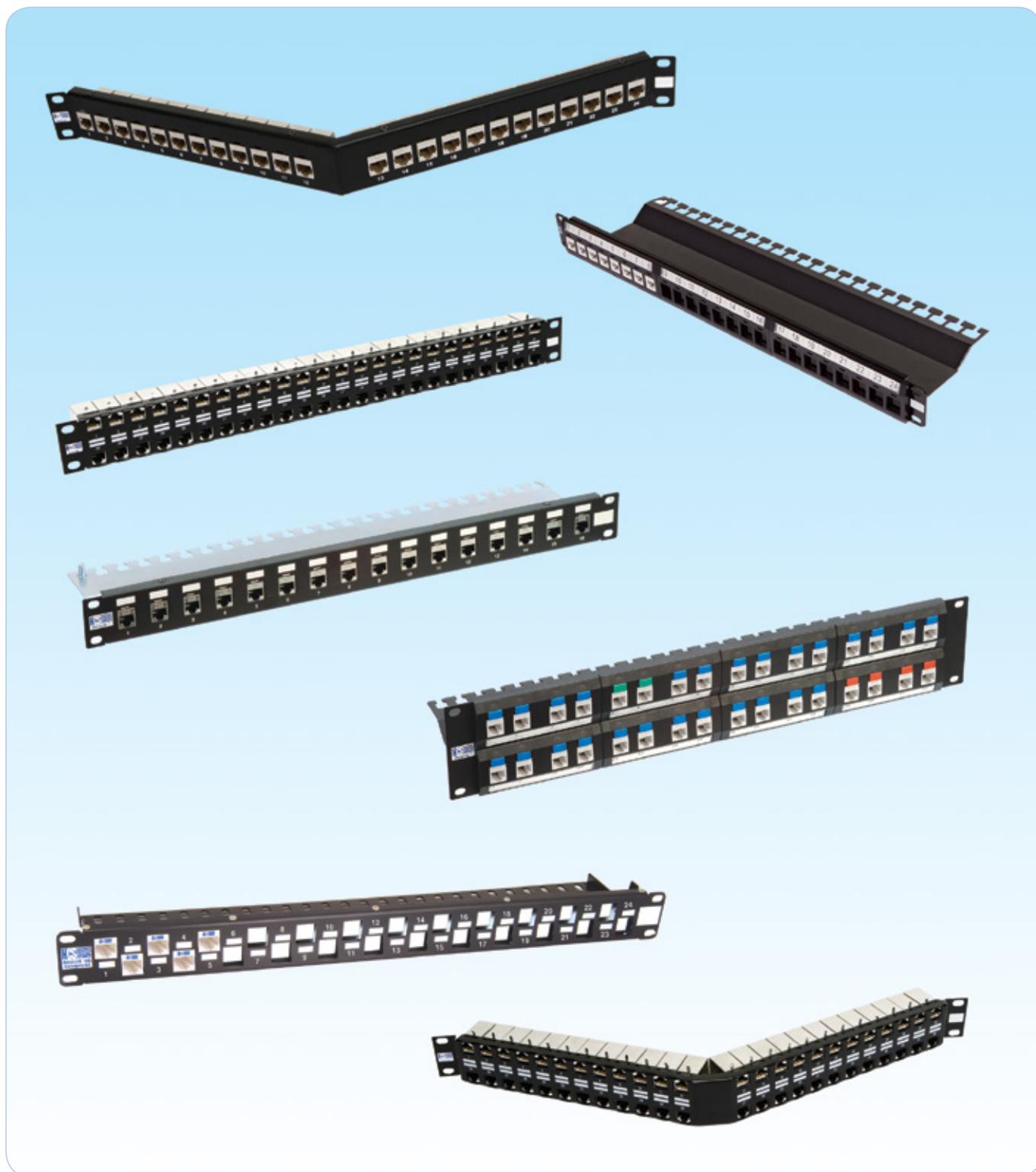
Category 6 Unshielded Wall Mount & Rack Mount 110 Wiring Blocks

DataLink 250

ORDERING INFORMATION

HCS P/N	Description	Type	Notes
110 Wall Mount Wiring Blocks			
C06-04801	48 Pair Category 6 Unshielded Wall Mount 110 Wiring Block Base	No legs	
C06-04802	48 Pair Category 6 Unshielded Wall Mount 110 Wiring Block Base	With legs	
C06-09601	96 Pair Category 6 Unshielded Wall Mount 110 Wiring Block Base	No legs	
C06-09602	96 Pair Category 6 Unshielded Wall Mount 110 Wiring Block Base	With legs	
C06-28801	288 Pair Category 6 Unshielded Wall Mount 110 Wiring Block Base	No legs	
C06-28802	288 Pair Category 6 Unshielded Wall Mount 110 Wiring Block Base	With legs	
C00-04801	Legs for 48 Pair Wall Mount 110 Wiring Block Base P/N C06-04801	-	
C00-09601	Legs for 96 Pair Wall Mount 110 Wiring Block Base P/N C06-09601	-	
C00-28801	Legs for 288 Pair Wall Mount 110 Wiring Block Base P/N C06-28801	-	
110 Wall Mount Wiring Blocks Kits			
C06-04811	48 Pair Category 6 Unshielded Wall Mount 110 Wiring Block plus 12 x C06-00461 connectors	No legs	Includes labels strips & label strip holders
C06-04812	48 Pair Category 6 Unshielded Wall Mount 110 Wiring Block plus 12 x C06-00461 connector	With legs	Includes labels strips & label strip holders
C06-09611	96 Pair Category 6 Unshielded Wall Mount 110 Wiring Block plus 24 x C06-00461 connectors	No legs	Includes labels strips & label strip holders
C06-09612	96 Pair Category 6 Unshielded Wall Mount 110 Wiring Block plus 24 x C06-00461 connectors	With legs	Includes labels strips & label strip holders
C06-28811	288 Pair Category 6 Unshielded Wall Mount 110 Wiring Block plus 72 x C06-00461 connectors	No legs	Includes labels strips & label strip holders
C06-28812	288 Pair Category 6 Unshielded Wall Mount 110 Wiring Block plus 72 x C06-00461 connectors	With legs	Includes labels strips & label strip holders
110 Rack Mount Wiring Blocks			
C06-09621	96 Pair Category 6 Unshielded Rack Mount 110 Wiring Block		
C06-19221	192 Pair Category 6 Unshielded Rack Mount 110 Wiring Block		
C06-28821	288 Pair Category 6 Unshielded Rack Mount 110 Wiring Block		
110 Rack Mount Wiring Blocks Kits			
C06-09631	96 Pair Category 6 Unshielded Rack Mount 110 Wiring Block plus 24 x C06-00461 connectors		
C06-19231	192 Pair Category 6 Unshielded Rack Mount 110 Wiring Block plus 48 x C06-00461 connectors		
C06-28831	288 Pair Category 6 Unshielded Rack Mount 110 Wiring Block plus 72 x C06-00461 connectors		
110 Rack Mount Wiring Blocks with Wire Management			
C06-09641	96 Pair Category 6 Unshielded Rack Mount 110 Wiring Block		
C06-19241	192 Pair Category 6 Unshielded Rack Mount 110 Wiring Block		
C06-28841	288 Pair Category 6 Unshielded Rack Mount 110 Wiring Block		
110 Rack Mount Wiring Blocks Kits with Wire Management			
C06-09651	96 Pair Category 6 Unshielded Rack Mount 110 Wiring Block plus 24 x C06-00461 connectors		
C06-19251	192 Pair Category 6 Unshielded Rack Mount 110 Wiring Block plus 48 x C06-00461 connectors		
C06-28851	288 Pair Category 6 Unshielded Rack Mount 110 Wiring Block plus 72 x C06-00461 connectors		
110 IDC			
C06-00461	4 Pair Category 6 IDC		
C06-00561	5 Pair Category 6 IDC		
110 Connectors			
C06-00171	1 Pair 110 Connector		
C06-00271	2 Pair 110 Connector		
C06-00371	3 Pair 110 Connector		
C06-00471	4 Pair 110 Connector		
110 Standard Terminated Cords			
C06-00180-XX	1 Pair 110 to 110 Connector		
C06-00280-XX	2 Pair 110 to 110 Connector		
C06-00380-XX	3 Pair 110 to 110 Connector		
C06-00480-XX	4 Pair 110 to 110 Connector		
C06-00190-XX	1 Pair 110 to RJ-45 Connector		
C06-00290-XX	2 Pair 110 to RJ-45 Connector		
C06-00390-XX	3 Pair 110 to RJ-45 Connector		
C06-00490-XX	4 Pair 110 to RJ-45 Connector		

Standard Color (0): Light Gray RAL 7035. Other colors available for selection from Color Table No.6.
-XX designates the cord length in decimeters (10 -> 1m cord, 00 -> 10m cord).



Description

HCS DataLink Blank RJ-45 Keystone-Jack Copper Patch Panels series includes high quality empty multi-port panels specially designed for structured premise cabling in local area networks (LANs).

HCS DataLink blank panels are available with plastic or metal frames, up to 48 ports and with standard or staggered form.

The plastic-frame panels are recommended for use with unshielded jacks, while the metal-frame panels are recommended for use with shielded jacks, in order to provide continuous ground connection even when non-shielded cords are used.

The HCS Logo and the DataLink Trademark ensure long lasting high-performance and full compatibility with all HCS components.

Applications

Installation of copper cabling systems in horizontal or vertical environments.

Benefits & Features

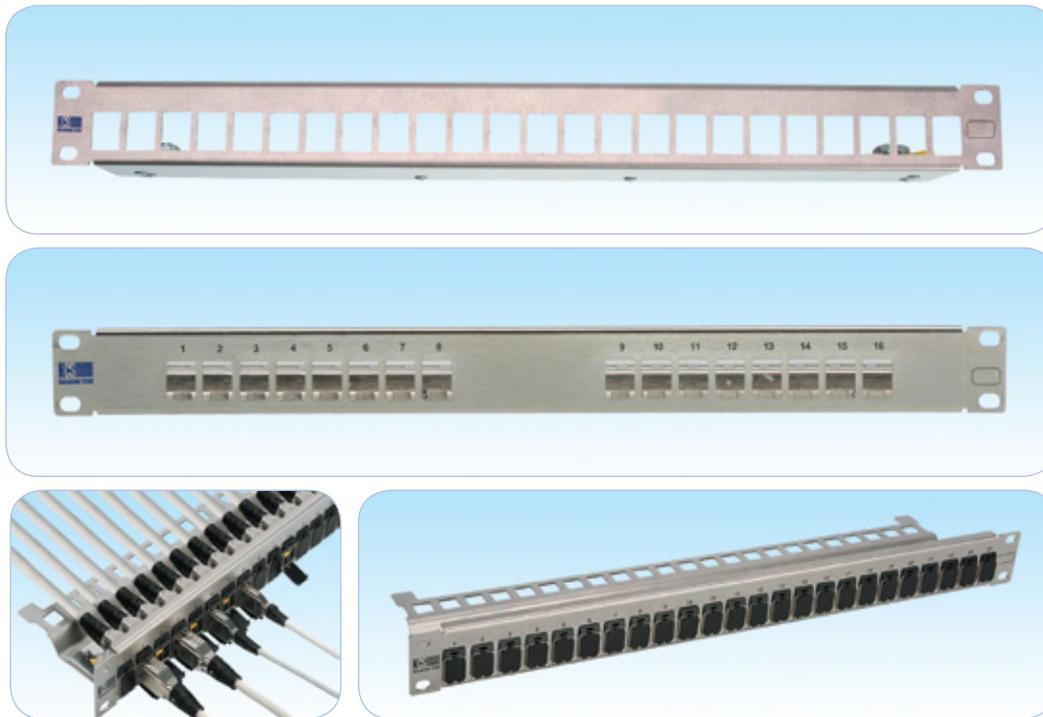
- Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- Integrated full installation accessories (supplied free of charge), including labels and icons, clip organizers and T-raps - Providing a simple and elegant cable termination and identification.
- Optional 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.
- 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
- Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.

GENERAL PROPERTIES

Material of Construction - Metal Frame	Steel, Aluminum, Aluminum Alloy or Anodized Aluminum.
Paint and Color - Metal Frame	Powder paint finish, Black (Gray available upon request)
Connector Module Holder	High impact, Flame-retardant plastic compound, UL 94 V-0.
Material of Construction - Plastic Frame	High impact, Flame-retardant plastic compound, UL 94 V-0.
Packaging	One unit per box.
Environmental Conditions	-40 to +60C at 0-90% RH (Non condensing)
Storage Temperature	-20 to +80C
Non Halogen Constructions	Available upon request.

ORDERING INFORMATION

HCS P/N	Description	Units	Jack Compatibility		Size	
			Unshielded	Shielded	mm	Inch
P00-01610-1U	16 port Keystone Jack Blank 19" Plastic Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-01620-1U	16 port Keystone Jack Blank 19" Metal Patch Panel	1u	Yes	Yes	44.5x483	1.75x19
P00-02410-1U	24 port Keystone Jack Blank 19" Plastic Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-02420-1U	24 port Keystone Jack Blank 19" Metal Patch Panel	1u	Yes	Yes	44.5x483	1.75x19
P00-02430-1U	24 port Keystone Jack Blank 19" Staggered Metal Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-02450-1U	24 port Keystone Jack Blank 19" Metal Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-02460-1U	24 port Keystone Jack Blank 19" Angled Metal Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-02470-1U	24 port Keystone Jack Blank 19" Angled Metal Patch Panel	1u	Yes	Yes	44.5x483	1.75x19
P00-03210-2U	32 port Keystone Jack Blank 19" Plastic Patch Panel	2u	Yes	No	89x483	3.5x19
P00-04810-2U	48 port Keystone Jack Blank 19" Plastic Patch Panel	2u	Yes	No	89x483	3.5x19
P00-04810-1U	48 port Keystone Jack Blank 19" Metal Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-04820-1U	48 port Keystone Jack Blank 19" Metal Patch Panel	1u	Yes	Yes	44.5x483	1.75x19
P00-04860-1U	48 port Keystone Jack Blank 19" Angled Metal Patch Panel	1u	Yes	No	44.5x483	1.75x19
P00-04870-1U	48 port Keystone Jack Blank 19" Angled Metal Patch Panel	1u	Yes	Yes	44.5x483	1.75x19



Description

HCS DataLink DL-1200 Blank Copper Patch Panels series includes high quality blank multi-port panels specially designed for structured premise cabling in local area networks (LANs) using HCS DL-1200 outlets for high-frequency applications.

HCS DataLink DL-1200 blank panels are available with metal frames with 16 or 24 ports.

The HCS Logo and the DataLink Trademark ensure long lasting high-performance and full compatibility with all HCS components.

Applications

HCS DataLink DL-1200 Blank Copper Patch Panels are used for horizontal distribution or equipment terminations in telecommunications rooms and for interconnection terminations in consolidation points where high frequency application are required

Benefits & Features

- ➔ Exceptional material properties and design - Providing a unique Century™ Lifetime Warranty.
- ➔ Built-in cable management and strain relief features are integrated onto the rear of panel - Providing a simple and elegant cable termination and identification.
- ➔ When outlets are snapped into place, resilient ground tabs and ground lugs assure that each outlet and cable is properly grounded - Providing maximum protection against outside interference.
- ➔ No secondary grounding operations are required - reducing overall installation time.
- ➔ Optional use of 1-pair, 2-pair or 4-pair cords - enabling sharing multiple applications over each 4-pair cable/outlet, saving material and installation costs.
- ➔ 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.
- ➔ Robust and installer-friendly design - Providing reduced installation and operating costs
- ➔ Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.

GENERAL PROPERTIES

Material of Construction	High-strength Aluminum - Painted or anodized. Painted steel or unpainted stainless-steel.
Paint and Color	Powder paint finish, Black (Gray available upon request)
Packaging	One unit per box.
Environmental Conditions	-40 to +60C at 0-90% RH (Non condensing)
Storage Temperature	-20 to +80C
Non Halogen Constructions	Available upon request.

ORDERING INFORMATION

HCS P/N	Description	Units	Size	
			mm	Inch
P7A-01610-1U	16 port DL-1200 Jack Blank 19" Metal Patch Panel	1u	44.2x483	1.74x19
P7A-02410-1U	24 port DL-1200 Jack Blank 19" Metal Patch Panel	1u	44.5x483	1.74x19