Premium 5e® F/UTP

Siemon's Premium 5e F/UTP end-to-end cabling system is guaranteed to provide transmission performance margins in excess of industry standards for category 5e parameters, while featuring excellent EMI resistance. Premium 5e F/UTP has been independently verified to perform to 160 MHz.

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MAX® 5e Shielded Modules

The shielded MAX module is the cornerstone of our category 5e screened cabling systems. This product not only meets all TIA/EIA component specifications, but also exceeds ISO/IEC 11801 2nd edition and EN50173 2nd edition requirements for transfer impedance and shield effectiveness.

1. **Fully Shielded** – Design optimises shield effectiveness for protection from EMI
2. **Easy Identification** – Coloured icons provided for port identification
3. **Rear Shield Protection** – Robust rear shield protects IDC terminations and maintains shield effectiveness
4. **Easy Termination** – Press-fit termination makes installation quick and easy
5. **Universal Compatibility** – Compatible with both T568A/B schemes
6. **Integrated Grounding** – No separate grounding tabs required

Simple Termination

Category 5e shielded MAX modules can be terminated in less than three minutes.

For the Telecommunications Room and Work Area

Category 5e shielded MAX is designed for use with both TERA®-MAX patch panels and 10G MAX faceplates.

Quick-Ground™ Termination

No additional steps required for termination. Cable shield is automatically terminated within the outlet without additional steps or tools.

MAX 5e SHIELDED MODULES

Outlets terminate all shielded cable constructions 22 – 24 AWG (0.64 – 0.51mm) size conductors.

MX5-FS . . . . . .

Flat category 5e shielded MAX module, T568A/B

MX5-S . . . . . .

Angled category 5e shielded MAX module, T568A/B

MX5-KS . . . . . .

Keystone category 5e screened MAX module, T568A/B

Flat and angled modules include one red and one blue icon.
Note: Keystone version is designed for integration with various international mounting products and is not compatible with MAX mounting hardware.
Doors available separately.

Ⓑ Add "B" for bulk project pack of 100 modules.

Technical Tip!

Shielded MAX modules are not side-stackable in standard MAX faceplates. 10G MAX faceplates are recommended.

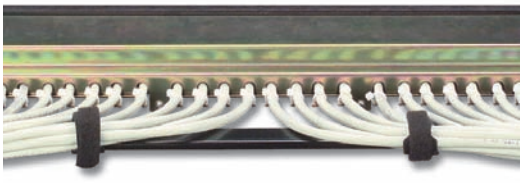
TERA-MAX® PATCH PANELS

Part #	Description
TM-PNLZ-24-01	24-port TERA-MAX panel, black, 1U
TM-PNLZ-24	24-port TERA-MAX panel, metallic, 1U
TM-PNLZA-24-01	24-port Angled TERA-MAX panel, black, 1U
TM-PNLZA-24	24-port Angled TERA-MAX panel, metallic, 1U

Panels include designation labels, cable ties and mounting hardware.
Note: 1U = 44.5mm

SYSTEM 5e SHIELDED HD® PATCH PANELS

The System 5e shielded HD patch panel provides a high density modular solution for termination of 4-pair shielded cable. It provides transmission performance that meets category 5e system requirements and is fully compliant with shielding effectiveness as defined by the CENELEC and ISO/IEC standards.

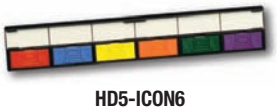


Part #	Description
HD5-S-24	System 5e shielded 24-port HD5 panel, T568A/T568B, 1U
HD5-RWM	Rear cable management bracket for HD5-S-24

Panels include designation labels, cable ties and mounting hardware.
Note: 1U = 44.5mm

HD PANEL ACCESSORIES

Part #	Description
HD5-ICON6	Adhesive-backed strips in a package of 8 for colour-coding and port designation for 24-, 48-, or 96-port panels (icons not included)
HD5-ICON6-LBL	10 sheets of labels for HD5-ICON6 for laser printing (16 labels per sheet)*
HD5-LBL-480	Adhesive strips for sequentially numbering panel ports 1 through 480 for 24-, 48-, or 96-port panels
HD5-LBL6-2	White removable designation strips in a package of eight for 24-, 48-, or 96-port panels



HD5-ICON6

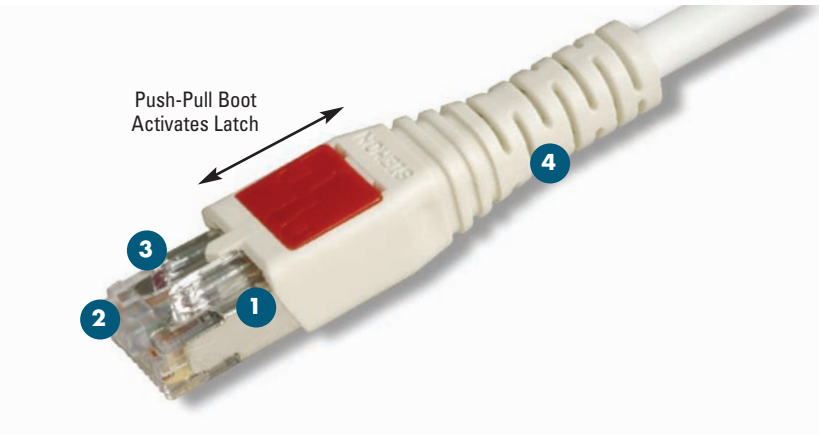
HD5-LBL6-2

HD5-LBL-480

*Visit our website or contact our Technical Support Department for labeling software.

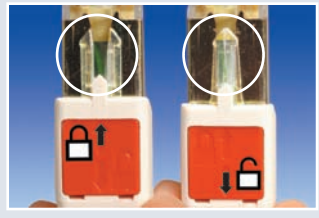
BladePatch® 5e Shielded Modular Cords

Siemon's category 5e BladePatch patch cords offer a unique solution for high-density patching environments. They feature an innovative push-pull boot design to control the latch, enabling easy access and removal of the cord in tight-fitting areas. The BladePatch cords are ideal for patching blade servers, patch panels, or any equipment with high density RJ-45 outlets.

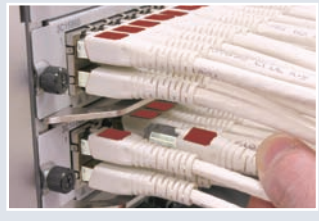


1. **Revolutionary Design** – Patented push-pull latch design eliminates need to defeat thumb latch used in standard modular plug designs. Enables easy access and removal in high density patching environments
2. **Universal Wiring** – Compatible with T568A/B wiring schemes
3. **Snagless** – Push-pull design eliminates external thumb latch which can snag and break
4. **Low Profile Boot Design** – Optimises side-stackability of patch cords and allows use in even the most dense equipment

Universal Compatibility
Fits within any standard RJ-45 outlet.



Revolutionary Latch
Simply push the boot forward to latch into the outlet and pull back to release.



High Density
The push-pull design enables easy access and removal via the boot in tight-fitting areas.

Ordering Information:

Category 5e shielded bladepatch, double-ended modular patch cord with push-pull latching design, colour matching cord/boot, T568A/B, LSOH

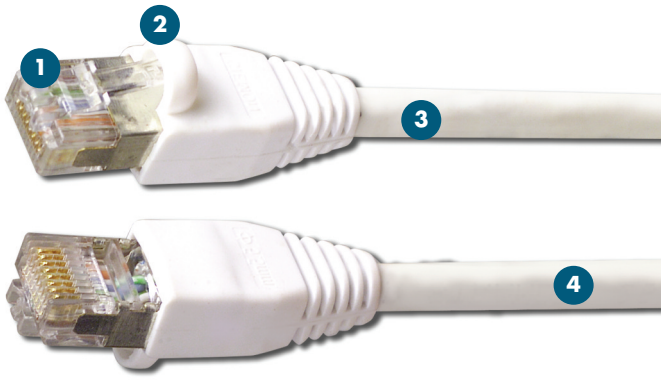
BP5S-(XX)M-(XX)

Cord Length:	Cord Colour:
01 = 1.0m	**01** = Black
1.5 = 1.5m	**02** = White
02 = 2.0m	**03** = Red
03 = 3.0m	**04** = Grey
05 = 5.0m	**05** = Yellow
7.5 = 7.5m	**06** = Blue
	07 = Green

Ⓑ Add "B" for bulk project pack of 100 modular cords.

MC® 5e Shielded Modular Cords

Siemon's shielded MC 5e modular cords are manufactured using stranded shielded cable that meets all category 5e specifications. Modular plugs have an overall shield and meet TIA-968-A and IEC 60603-7 specifications. T568A/B wired assemblies include coloured strain-relief boots and are available in a wide range of lengths.



1. **Universal Wiring** – Compatible with T568A/B wiring schemes
2. **Latch Guard** – Boots feature a latch guard to protect plug from snagging when pulling through pathways or cable managers
3. **Colour Options** –Variety of colour options available for circuit identification
4. **Superior Quality** – Quality plug components ensure long term resistance to corrosion from humidity, extreme temperatures, and airborne contaminants

Factory-Tested

Cords are factory terminated and transmission tested to ensure compliance with applicable standards requirements.

Compliance

- Plug geometry meets TIA-968-A and IEC 60603-7 specifications for modular plugs
- Exceeds ISO/IEC 11801:2002 requirements for transfer impedance, coupling attenuation and shield effectiveness
- Stranded Cable: IEC 61156-6:2002 Compliant
- LSOH Cordage: IEC 60332-1, IEC 60754, and IEC 61034 compliant

Excellent Bend Relief

Boot ensures proper bend relief.

Ordering Information:

Category 5e screened MC, double-ended 4-pair stranded modular cord, colour matching jacket/boot, T568A/B, LSOH

MC5S-(XX)M-(XX)

Cord Length:

- **01** = 1.0m
- **1.5** = 1.5m
- **02** = 2.0m
- **03** = 3.0m
- **05** = 5.0m
- **7.5** = 7.5m

Cord Colour:

- **01** = Black
- **02** = White
- **03** = Red
- **04** = Grey
- **05** = Yellow
- **06** = Blue
- **07** = Green

Ⓑ Add "B" to end of part number for bulk project pack of 100 cords.

Technical Tip!

Factory terminated and tested modular cords are required to achieve consistent category 5e compatibility. Field termination is not recommended and is not compliant with Siemon warranty.

Premium 5e® F/UTP 4-Pair Cable (EMEA)

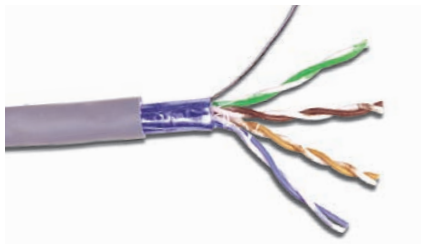
COMPLIANCE

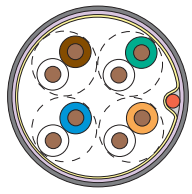
- ISO/IEC 11801:2002 (Category 5e)
- TIA-568-C2 (Category 5e)
- IEC 61156-5:2002 (Category 5e)
- UL CM
- LS0H: IEC 60332-1, IEC 60754 and IEC 61034

CABLE CONSTRUCTION

- F/UTP
- 0.5mm (24 AWG) solid bare copper
- 7.4mm (max) jacket diameter
- Shield is an aluminum foil tape enclosing a 0.5mm (24 AWG) tinned copper drain wire

Part #	Description
9A5M4-E2	PVC (CM, IEC 60332-1),Grey Jacket, 305m Reel-in-Box
9A5L4-E2	LS0H (IEC 60332-1), Violet Jacket, 305m, Reel-in-Box





ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-250 MHz: 100 ± 22%
NVP	69%
TCL	40-10 log(*f*) dB
Delay Skew	≤40ns

PHYSICAL PROPERTIES

	LS0H	CM/CMR
Pulling Tension	110N	110N
Bend Radius (min)	30mm	30mm
Installation Temperature	0 to 60°C	0 to 60°C
Storage Temperature	-20 to 75°C	-20 to 75°C
Operating Temperature	-20 to 60°C	-20 to 60°C

TRANSMISSION PERFORMANCE

TIA & ISO/IEC SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.9	65.3	79.3	62.3	72.3	63.2	77.4	60.2	70.4	63.8	84.8	60.8	78.8	20.0	27.0	570	545
4.0	4.1	3.7	56.3	70.3	53.3	63.3	52.2	66.6	49.2	59.6	51.8	72.8	48.8	66.8	23.0	32.0	552	527
10.0	6.5	5.8	50.3	64.3	47.3	57.3	43.8	58.5	40.8	51.5	43.8	64.8	40.8	58.8	25.0	32.0	545	520
16.0	8.3	7.4	47.2	61.2	44.2	54.2	39.0	53.8	36.0	46.8	39.7	60.7	36.7	54.7	25.0	32.0	543	518
20.0	9.3	8.3	45.8	59.8	42.8	52.8	36.5	51.5	33.5	44.5	37.8	58.8	34.8	52.8	25.0	32.0	542	517
31.25	11.7	10.5	42.9	56.9	39.9	49.9	31.1	46.4	28.1	39.4	33.9	54.9	30.9	48.9	23.6	30.0	540	515
62.5	17.0	15.0	38.4	52.4	35.4	45.4	21.4	37.4	18.4	30.4	27.9	48.9	24.9	42.9	21.5	30.0	539	514
100.0	22.0	19.3	35.3	49.3	32.3	42.3	13.3	30.0	10.3	23.0	23.8	44.8	20.8	38.8	20.1	30.0	538	513
160.0*	28.6	25.1	32.2	46.2	29.2	39.2	3.7	21.1	0.7	14.1	19.7	40.7	16.7	34.7	18.7	28.0	537	512
200.0*	32.4	28.1	30.8	44.8	27.8	37.8	-1.6	16.7	-4.6	9.7	17.8	38.8	14.8	32.8	18.0	27.0	536	512
250.0*	36.9	31.4	29.3	43.3	26.3	36.3	-7.5	11.9	-10.5	4.9	15.8	36.8	12.8	30.8	17.3	26.0	536	511
300.0*	41.0	34.5	28.1	42.1	25.1	35.1	-12.8	7.6	-15.8	0.6	14.3	35.3	11.3	29.3	16.8	25.0	536	511
350.0*	44.9	39.4	27.1	41.1	24.1	34.1	-17.7	1.7	-20.7	-5.3	12.9	33.9	9.9	27.9	16.3	24.0	536	511

**Values above industry requirements are for information only*

All performance based on 100 metres .