

PRODUCT SPECIFICATION SHEET

Product Name: Signamax™ Shielded Patch Panels

CAT5E	CAT6	CAT 6A
Transmission Performance		
ANSI/TIA-568-C.2: meets or exceeds category 5e (1–100 MHz) component specifications	ANSI/TIA/EIA-568-B.2-1: Exceeds Category 6 (1 – 250 MHz) component level specifications	ANSI/TIA-568-B.2-10: Meets or exceeds category 6A (1–500 MHz) channel specifications
Transmission Media		
Unshielded (U/UTP) or shielded twisted pair (U/STP, F/UTP, F/STP, SF/ STP)	Unshielded or shielded twisted pair (UTP/ScTP/FTP/SFTP)	
Wiring Scheme		
ANSI/TIA-568-C.2: T568A & T568B ISO/IEC 11801 2nd Ed.: 8-position pin/pair assignment (1-2/3-6/4-5/7-8)	ANSI/TIA/EIA-568-B.2: T568A & T568B ISO/IEC 11801 2nd Ed.: 8-position pin/pair assignment (1-2/3-6/4-5/7-8)	
Electrical		
Insulation resistance: min 500 MOhm @ 100 Vdc Dielectric withstanding voltage: 1,000 Vdc/ac peak contact to contact @ 60 Hz for 1 min Spring wire contact resistance: max 20 Mohm IDC contact resistance: max 2.5 MOhm Current rating: see figure		
Mechanical		
Retention force: 50 N (11 lbf) for 60 ± 5 s Mating cycle life: min 750 cycles		Total contact force: min 800 g for 8 wire leads with FCC compliant 8p8c plug Retention: 50 N (11 lbf) for 60±5 s Mating cycle life: min 750 cycles with FCC compliant 8p8c plug
Construction		
Panel housing: SAE 1010 1.6 mm (0.063 in), black paint coating Connector housing: high-impact, flame-retardant UL 94V-0 thermoplastic Screen: nickel-plated copper alloy Jack spring wire: phosphor bronze alloy plated with 50 μ in of gold over 70–100 μin of nickel IDC: 110 type, phosphor bronze alloy with 100-μin 100% tin (Sn) alloy		Panel: steel/Ni plated steel Cable management bar: steel/Ni plated steel Jack housing: screened case: copper, 0.25 mm (0.0098 in), 100 μin nickel plated contact holder: high impact thermoplastic, UL94V-0 fire retardant Jack contacts: phosphor bronze alloy plated with min 50 μin of gold over 70–100 μin of nickel platingJack IDC: 110 type, phosphor bronze alloy with 100 μin 100% tin alloy
Jack Type		
8p8c (8-position, 8-contact) “RJ45” type		
Wire Gauge		
22-24 AWG (0.644 – 0.511 mm)	22-26 AWG (0.643 – 0.404 mm)	22-24 AWG (0.644 – 0.511 mm)

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Mounting Dimensions			
Panel: 19" rack mountable 1.5 in deep (w/o cable management bar) 6.0 in deep (with cable management bar installed) 1.75 in (1 RMU) high (24458S-C6A)	Panel: 19" rack mountable 1.5 in deep (w/o cable management bar) 6.0 in deep (with cable management bar installed) 1.75 in (1 RMU) high (24458S-C6A) 3.50 in (2 RMU) high (48458S-C6A)		
Jacks: 0.67"W x 1.65"D x 0.76"H (W 17.0 mm D 41.8 mm H 19.3 mm)			
Environmental Conditions			
Storage: -40°C – 70°C (-40°F – 158°F)	-		Storage: -40°C – 70°C (-40°F – 158°F)
Operation: -10°C – 60°C (14°F – 140°F)	Operation: -14°F – 140°F (-10°C – +60°C)		Operation: -10°C – 60°C (14°F – 140°F)
RH (operation): max non-condensing 93%	-		RH (operation): max non-condensing 93%
Conditions			
ANSI/TIA-568-C.2, IEC 60603-7, FCC Part 68 Subpart F, UL 94V-0	ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd Ed., CENELEC EN 50173, FCC Part 68, UL 1863, IEC 60603-7		ANSI/TIA/EIA-568-B.2-10, IEEE 802.3 ab, FCC Part 68 Subpart F, UL 94V-0, UL 1863, IEC 60603-7
Applications			
X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, 10GBASE-T (up to 25 m (82 ft)), TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD	X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, 10GBASE-T, TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD		
Warranty			
5-year limited component warranty 10-year Signamax Link/Channel Warranty 15-year Signamax Extended Component Warranty 25-year Signamax Cabling System Warranty	5-year limited component warranty 25-year system warranty		5-year limited component warranty 10-year Signamax Link/Channel Warranty 15-year Signamax Extended Component Warranty 25-year Signamax Cabling System Warranty