# Avaya GS3 PATCHMAX® GigaSPEED® XL Patch Panel

## Certified SYSTIMAX® SCS GigaSPEED® XL Component

### Designed by Avaya Labs to provide reliable high-performance connectivity

Converged Voice and Data Networks

Customer Relationship Management

Unified Communication

Supported by Avaya Labs and Services

Introduced in 1997, the GigaSPEED PATCHMAX® panel system was the first on the market to support Category 6 channel performance. Innovative built-in patch cord management rings and a unique modular block design provided customers with unmatched flexibility and electrical performance. That tradition of innovation continues with the introduction of the new PATCHMAX GS3.

The PATCHMAX GS3 panel system provides even better performance and helps unleash the power of the new fully tuned and integrated GigaSPEED XL Solutions, while maintaining all of the innovative features that have made PATCHMAX unique in the industry. Its unique modularity and patch cord management system continue to provide flexibility to MIS managers through the use of Distribution Modules (DM). These modules can be rotated forward, allowing front acccess to the newly-designed 110 Type IDC terminals for easy cable termination.

## SYSTIMAX GigaSPEED XL Solutions... the relentless pursuit of Excellence

## Features

- Electrical performance guaranteed to meet or exceed TIA/EIA 568-B.2-1 Category 6 and ISO/IEC Category 6/ Class E specifications.
- Individual six port distribution modules can be removed, snapped onto the front cord management rings and pivoted forward for easy front access to the rear 110 type IDC termination field making installation a snap.
- Available in 24- and 48-port configurations for 19-inch frame mounting or it can mount on a wall with an optional 1100C1 adapter.
- Attractive black powder covered high-strength steel panel accepts 6-port distribution modules featuring universal Type A/B labeling.
- Designed for simplified administration with built-in cord and cable retainer rings, color coded labels and icons.
- Front ports accept the new GS8E GigaSPEED XL Solution patch cord or any 8-pin compliant modular cord.
- Each panel comes ready to install, including front and rear labels.
- UL listed, UL-C certified and ACA approved.
- Can support network line speeds in excess of 1 gigabit per second.
- Backward compatible with Category 5e, 5 and 3 cords and cables. However, optimal performance is achieved when used with GS8E GigaSPEED XL Solution patch cords.
- Certified component of an integrated GigaSPEED XL Solution.
- Qualifies for a 20-year product and applications assurance warranty when included as part of a certified SYSTIMAX GigaSPEED XL channel.

## Performance Specifications

| | PatchMAXGS3 Patch Panel | XL7 Solution | XL8 Solution |
|---|---|---|---|
| | | GigaSPEED Channel (4 Connectors) | |
| | Typical Worst Pair Margin* | Guaranteed Margin** | Guaranteed Margin** |
| Insertion Loss | 64.8% | 5.0% | 7.5% |
| NEXT | 6.6 dB | 6.0 dB | 7.0 dB |
| PSNEXT | 7.2 dB | 7.5 dB | 8.5 dB |
| ELFEXT | 6.7 dB | 6.0 dB | 8.0 dB |
| PSELFEXT | 6.4 dB | 8.0 dB | 10.0 dB |
| Return Loss | 6.7 dB | 4.0 dB | 4.0 dB |
| Frequency Range | 1-250 MHz | 1-250 MHz | 1-250 MHz |

* Typical worst pair swept margin when measured with a GS8E modular patch cord.

**Guaranteed margin is valid at any frequency from 1-250 MHz for a SYSTIMAX certified channel comprising GigaSPEED XL apparatus and 71E series cable (GigaSPEED XL7 Solution) or 81A series cable (GigaSPEED XL8 Solution). Values represent margin over the draft Category 6/Class E channel specifications.

**Figure 1:** Front view of a PM GS3-24 Patch Panel showing one module mounted for front termination

**Figure 2:** PM GS3-24 showing the cord management brackets with a 6-port module mounted for front access termination

## Specifications

| Dimensions | (Width x Height x Depth) |
|---|---|
| **PM-GS3-24:** | 19.0 x 3.50 x 1.25 in (48.26 x 8.90 x 3.20 cm) - 2 Rack Unit Universal A/B labeling |
| **PM-GS3-48:** | 19.0 x 5.25 x 1.25 in (48.26 x 13.34 x 3.20 cm) - 3 Rack Unit Universal A/B labeling |
| **1100C1-35-19 Wall Adaptor:** | 19.0 x 3.50 x 5.0 in (48.30 x 8.89 x 12.70 cm) |
| **1100C1-70-19 Wall Adaptor:** | 19.0 x 7.00 x 5.0 in (48.30 x 17.78 x 12.70 cm) |
| **Operating Temperature Range:** | 14°F to 140°F (-10°C to 60°C) |
| **Storage Temperature Range:** | -40°F to 158°F (-40°C to 70°C) |
| **Humidity:** | 95% (noncondensing) |
| **Nominal Solid Conductor Diameter:** | 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG) |
| **Nominal Stranded Conductor Diameter:** | 0.025 to 0.020 in (0.64 to 0.51 mm (22 to 24 AWG) |
| **Insulation Size:** | 0.042 in (1.08 mm) (22 to 24 AWG) Maximum DOD |
| **Insulation Types:** | All plastic insulates (including PVC, irradiated PVC, Polyethylene, Polypropylene, PTF Polyurethane, Nylon, and FEP |
| **Modular Jack Insertions:** | 750 minimum insertions of an FCC 8-Position Telecommunications Plug |
| **Front Panel:** | Black powder painted steel. |
| **Modular Panels:** | High-impact, flame retardant, UL-rated 94V-0 thermoplastic |

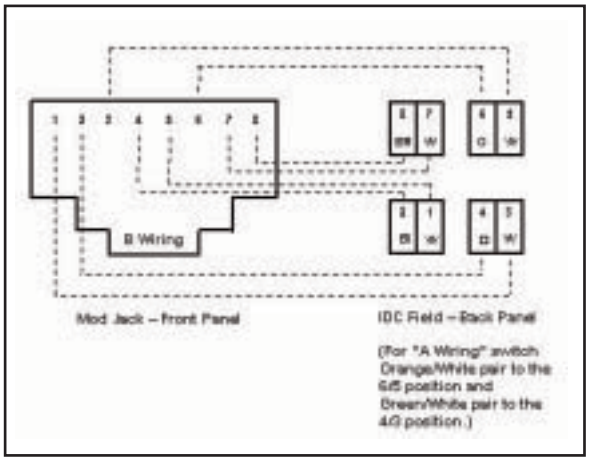


**Figure 3:** TIA568 "B" Wiring Scheme

## Ordering Information

| Patch Panels | Pkg. | Material ID |
|---|---|---|
| PM-GS3-24 Universal A/B Wiring | Each | 700 173 735 |
| PM-GS3-48 Universal A/B Wiring | Each | 700 173 743 |
| DM-GS3-6 GS 6 port snap-in module | Each | 700 173 776 |

| Wall Mount Adapters | Pkg. | Material ID |
|---|---|---|
| 1100C1-35-19 Wall mount | Each | 106 830 573 |
| 1100C1-70-19 Wall mount | Each | 106 830 581 |

Visit our Web site at avaya.com/connectivity or contact your local Avaya representative or SYSTIMAX BusinessPartner for more information. Alternatively, please call +1 603 559 4429 or (1 800 344 0223 toll-free within the United States).


**Figure 4:** Closeup of the rear of a 6-port module showing the label and wiring configuration



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