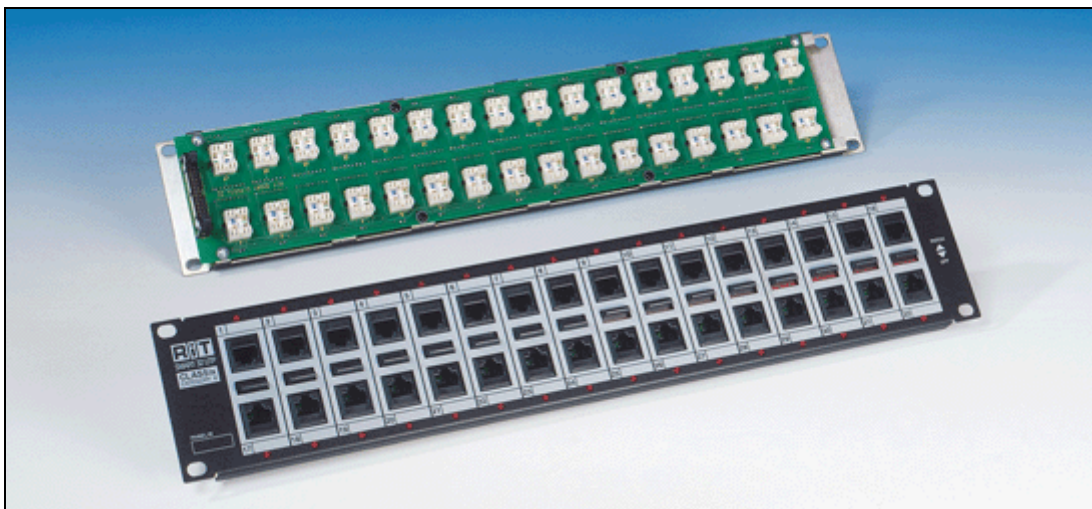


SMART CLASSix 32 UTP Patch Panels (with patching switches) -

Features



- Front mounted Patching Switches connect ports internally, dramatically reducing the need for patch cords
- Compatible to Unshielded Twisted Pairs (UTP) cabling system
- High performance, support Category 6 performance specifications up to 250 MHz
- Conform to ANSI/TIA/EIA-568-B.2-1, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E
- Simple, labor saving assembly and installation
- Enhanced cable retention fixture
- Support 32 ports, using 2U of Rack space
- Compatible with 22-26 AWG Solid or stranded wire cables
- High durability and reliability
- PatchView and non PatchView options
- Patent pending

SMART CLASSix 32 UTP Patch Panels (with patching switches) - *Features*



CLASSix™

RiT SMART CLASSix STP Patch Panels are part of the RiT SMART CLASSix Cabling System™, featuring Category 6 performance. The system is designed to conform to ANSI/TIA/EIA-568-B.2-1, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E.

PatchView™ Capability

- SMART 48 Panels, when used in conjunction with RiT's PatchView System, can scan the wiring center configuration and subsequently report the connectivity status
- Patching information is displayed at the management station for cabling management and control
- LED indicators on panels identify any two ports patched together. Extremely useful for facilitating maintenance in mid-to-large size wiring centers which are over congested with patch cords
- Computerized LED-display guides the technician in performing Moves, Adds and Changes (MACs)

SMART CLASSix 32 UTP Patch Panels (with patching switches) -

Description



SMART CLASSix 32 UTP Patch Panel offers an innovative high quality patching solution that is made to last. The robust system significantly reduces the need for patch cords while exceeding Category 6 performance requirements. Provides RiT's worldwide-recognized PatchView™ Technology with a real-time cabling management system.

The SMART CLASSix 32 UTP Patch Panel conforms to ANSI/TIA/EIA-568-B.2-1, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E.

SMART CLASSix 32 UTP Patch Panels (with patching switches) - *Specifications*



Interface

■ Front Interconnection (patch cord side)

32 eight-position or nine-position RJ-45 unshielded modular jacks. Use of patch cords with RiT CLASSix RJ-45 plugs is recommended.

■ Back Interconnection (cabling side)

32 eight-position 110 tool-compatible blocks, accept 23 to 26 AWG wires, solid or stranded. Rated for up to a minimum of 200 re-termination cycles.

Note: Termination tools must be ordered separately.

■ Interconnection to RiT's PatchView system (in selected models)

A 26-pin headers on the back of the panel is used for connection to the PatchView Scanner. Select Scanner to Group A Patch Panel Attachment Cord according to the required length. The scanning signal is transmitted over pin 9 of the RJ-45. Pin 9 exists in nine-position RJ-45 jack and plug designs, used for these patch panel models. A special patch cord -SMART Jumper, including an extra wire and special RJ-45 plugs is needed. Please refer to the PatchView System and the Copper Cables and Cords sections for further details.

■ Indicators (in models adapted to PatchView only)

Port identification indicators - 32 red LEDs. Connected ports are identified by a pair of activated LEDs. A single port can be identified and the corresponding LED activated by a remote control command from the network management station.

■ Patching Switches (in selected SMART 32 models)

16 Patching Switches for internal patching. When switched to "PATCH" position - upper and lower ports are connected. When switched to "OFF" position - upper and lower ports are disconnected. Eight wires and the ninth scanning wire (when applicable) of each port are simultaneously switched. The switch is of superior quality and is qualified per military standards.

SMART CLASSix 32 UTP Patch Panels (with patching switches) - *Specifications*



Electrical Specifications

Category 6

Standard

Conforms to ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E.

Performance Requirements

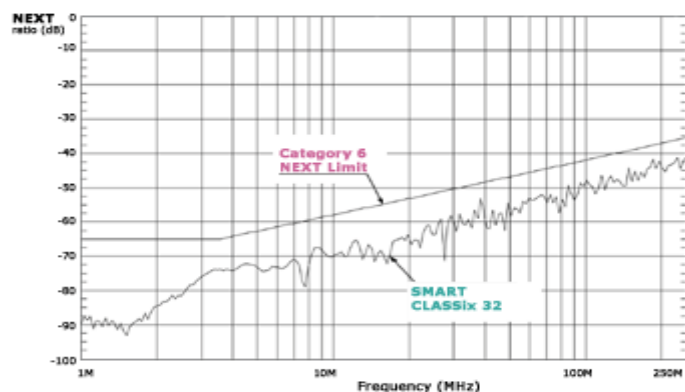
Meets all link and channel requirements

Electrical Specifications

SMART CLASSix 32 UTP Patch Panel (with patching switches)

NEXT ratio plot is shown for worst pair combination. The following are typical NEXT measurement results at 100, 200 and 250 MHz for all pair combinations.

Pairs	NEXT (dB)		
	100 MHz	200 MHz	250 MHz
12-36	-60.21	-48	-48.67
12-45	-51.29	-46.62	-44.31
12-78	-60.39	-51.19	-47.2
36-45	-53.6	-49.05	-42.3
36-78	-51.77	-46.44	-46.32
45-78	-47.82	-44.15	-41.07



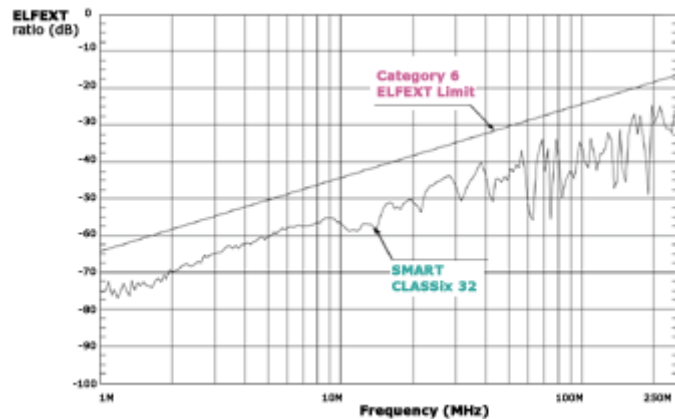
All pairs combinations exceed Category 6 requirements.

SMART CLASSix 32 UTP Patch Panels (with patching switches) - *Specifications*



ELFEXT ratio plot is shown for worst pair combination. The following are typical ELFEXT measurement results at 100, 200 and 250 MHz for all pair combinations.

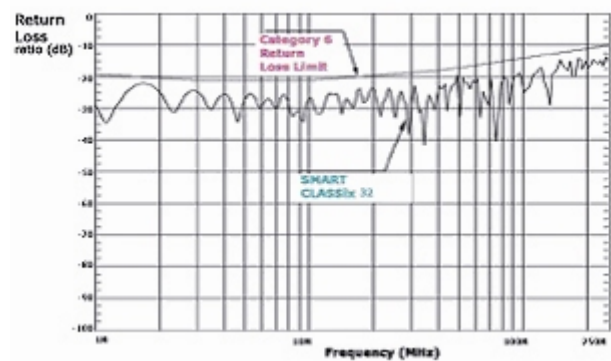
Pairs	ELFEXT (dB)		
	100 MHz	200 MHz	250 MHz
12-36	-41.78	-32.95	-31.64
12-45	-40.55	-41.41	-28.51
12-78	-52.65	-24.51	-28.27
36-45	-36.5	-29.54	-28.16
36-78	-42.06	-36.24	-31.04
45-78	-43.51	-34.96	-35.15



All pairs combinations exceed Category 6 requirements.

Return Loss ratio plot is shown for worst pair. The following are typical Return Loss measurement results at 100, 200 and 250 MHz for all pairs.

Pairs	Return Loss (dB)		
	100 MHz	200 MHz	250 MHz
1-2	-21.44	-16.66	-14.62
3-6	-19.62	-17.39	-15.98
4-5	-21.35	-16.38	-14.96
7-8	-18.71	-14.95	-13.61



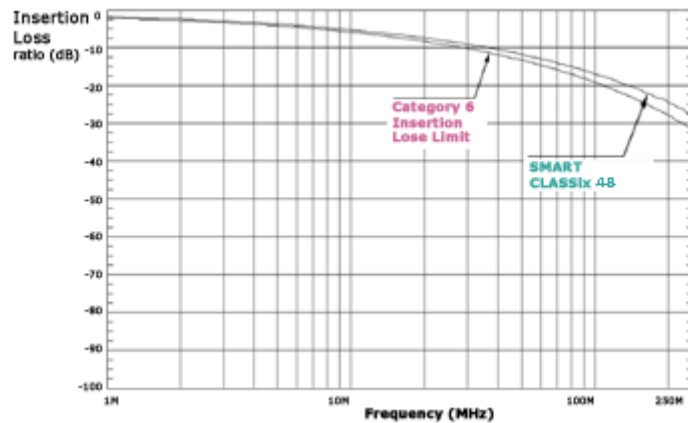
All pairs exceed Category 6 requirements

SMART CLASSix 32 UTP Patch Panels (with patching switches) - *Specifications*



Insertion Loss ratio plot is shown for worst pair. The following are typical Insertion Loss measurement results at 100, 200 and 250 MHz for all pairs.

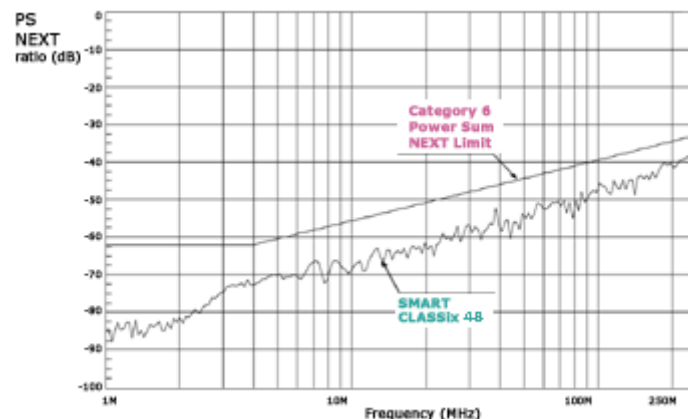
Pairs	Insertion Loss (dB)		
	100 MHz	200 MHz	250 MHz
1-2	-16.07	-23.34	-25.76
3-6	-16.95	-24.32	-27.44
4-5	-16.88	-24.46	-27.16
7-8	-15.57	-22.42	-26.17



All pairs exceed Category 6 requirements.

Power Sum NEXT ratio plot is shown for worst pair combination. The following are typical Power Sum NEXT measurement results at 100, 200 and 250 MHz for all pair combinations.

Pairs	Power Sum NEXT (dB)		
	100 MHz	200 MHz	250 MHz
1-2	-50.31	-44.47	-41.57
3-6	-49.22	-43.82	-40.19
4-5	-45.48	-41.39	-37.59
7-8	-46.18	-41.63	-39.19



All pairs combinations exceed Category 6 requirements.

SMART CLASSix 32 UTP Patch Panels (with patching switches) - *Specifications*



General

■ Physical

Height:	88.10 mm / 1.76" (2U)
Width:	482.6 mm / 19"
Depth:	56.10 mm / 2.2"
Retention Fixture:	89.10 mm / 3.5"
Weight:	1.5kg

■ Material

Steel

■ Colors

Black background with gray silk screened markings

■ Environment

Temperature: -20° to 60°C

Humidity: 0-90% non-condensing

■ Compliance with International EMC Standards:

The SMART CLASSix STP 48 line of patch panels is designed to comply with EN-55022, Class B (Europe) and FCC Part 15, Subpart J, Class A (USA).