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9.5	Wires pushed down over IDC instead of impact 110 style
9.6	Removal of impacting to terminate improves return loss and cross-talk at termination points
9.7	Less termination failures and better overall bandwidth for customer
1	U/UTP Patch Cord Specification
1.1	Voice
1.2	ISDN
1.3	10Base T(IEEE 802.3)
1.4	Fast Ethernet(IEEE802.3)
1.5	100Vg-Anylan(IEEE 802.12)
1.6	Token Ring(IEEE 802.5)
1.7	TP-PMD(ANSI X3T9.5)
1.8	100Base-T Ethernet(IEEE 802.3u)
1.9	155/622 Mbps ATM
1.10	1000Base-T
1.11	550 MHz Broadband video
2	Standards
2.1	UL, ETL Verified
2.2	ANSI/TIA-568-C.2
2.3	ISO/IEC 11801
2.4	EN 50173
3	Product Description
3.1	Meet all category 6 channel performance requirements specified in ANSI/TIA-568-C.2
3.2	110 type IDC termination
3.3	Accept 22~26AWG, stranded or solid wire
3.4	Modular jack meet FCC part 68
3.5	Wiring: T568A/B
4	Environmental Conditions
4.1	Temperature range: Storage: -40 to +70°C
4.2	Operational: -10 to +60°C
4.3	Relative humidity (operational): max. non-condensing 93% Electrical Characteristics
4.4	Insulation resistance between any two conductors: 500 Mega-Ohms min.
4.5	Dielectric with standing voltage: 1000V, RMS, 60HZ, 1 MIN.
4.6	Current rating: 1.5 AMPS at 20°C
4.7	DC resistance: Max. 0.1 Ohms
4.8	Contact resistance: 20 Milli-Ohms max.
5	Physical Characteristics
5.1	Housing: High-impact, Flame Retardant, UL94V-0 rated, spring wire/contact blades.
5.2	Contact material: Phosphor bronze alloy
5.3	Contact plating: 24 Karat hard gold (50 micro-inch plating thickness) over 100 micro-inch nickel.
6	Mechanical Characteristics
6.1	Total mating force: 800 grams for a 8 wire leads minimum

6.2	▪ Retention: 30lbs min between the jack and plug.	
6.3	▪ Insertion/Extraction life: 750 cycles minimum.	
6.4	▪ Number of IDC terminations: 200 minimum	
7	Faceplate	
7.1	▪ These faceplates are made from high-impact ABS plastic to ensure years of durable usage	
7.2	▪ Accept all kinds of CAT 3, CAT 5e and CAT 6 UTP keystone to fit with different performance requirements ²	
7.3	▪ Available in 1 port to 4 ports	
	8-Port POE Switch + 2 SFP Ports (17 Units)	
1	Network Interface - Proposed switch must have (8) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
2	Management Interface - Ethernet In-Band	
3	Non-Blocking Throughput - Must at least provide 10 Gbps	
4	Switching Capacity - Must at least provide 20 Gbps	
5	Forwarding Rate - Must at least provide 14.88 Mbps	
6	Maximum Power Consumption - The network switch must have a maximum power of at least 150W including PoE output and at least 20W excluding PoE output.	
7	PoE Interfaces - Must have 8 PoE ports which supports PoE+ IEEE 802.3af/at and 24VDC Passive PoE	
8	Max. PoE Wattage - At least 34.2 W per port	
9	Max. Passive PoE - At least 17W per port	
10	Voltage Range 802.3at Mode - Must have at least 50-57V	
11	24V Passive PoE Voltage Range - Must have at least 20-27V	
12	Power Supply - AC/DC, Internal, 150W DC	
13	Operating Temperature - -5 to 45° C (23 to 113° F)	
14	Operating Humidity - 5 to 95% Noncondensing	
15	ESD/EMP Protection - Air: ±24 kV, Contact: ±24 kV	
16	Shocks and vibration - Must conform with ETSI300-019-1.4 Standard	
17	Certifications - CE, FCC, IC	
18	Software Management - The switch must have a wireless network management software solution that allows to manage multiple wireless networks using a web browser.	
19	Brand/Standard - The technology or brand must either be American or European for a more Global Standard compliance.	
20	Local Support - The brand must have local 2 nd level support via its distributor that is compliant with global standard like ISO or Duns and Bradstreet to maintain a quality-of-service (QOS) delivery.	

	16-Port PoE Switch + 2 SFP Ports (4 Units)	
1	Network Interface - Proposed switch must have (16) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
2	Management Interface - Ethernet In-Band	
3	Non-Blocking Throughput - Must at least provide 18 Gbps	
4	Switching Capacity - Must at least provide 36 Gbps	
5	Forwarding Rate - Must at least provide 26.78 Mbps	
6	Maximum Power Consumption - The network switch must have a maximum power of at least 150W including PoE output and at least 28W excluding PoE output.	
7	PoE Interfaces - Must have 16 PoE ports which supports PoE+ IEEE 802.3af/at and 24VDC Passive PoE	
8	Max. PoE Wattage - At least 34.2 W per port	
9	Max. Passive PoE - At least 17W per port	
10	Voltage Range 802.3at Mode - Must have at least 50-57V	
11	24V Passive PoE Voltage Range - Must have at least 20-27V	
12	Power Supply - AC/DC, Internal, 150W DC	
13	Operating Temperature - -5 to 40° C (23 to 104° F)	
14	Operating Humidity - 5 to 95% Noncondensing	
15	ESD/EMP Protection - Air: ±24 kV, Contact: ±24 kV	
16	Mounting - Rack-Mountable or Wall-Mountable	
17	Shocks and vibration - Must conform with ETSI300-019-1.4 Standard	
18	Certifications - CE, FCC, IC	
19	Software Management - The switch must have a wireless network management software solution that allows to manage multiple wireless networks using a web browser.	
20	Brand/Standard - The technology or brand must either be American or European for a more Global Standard compliance.	
21	Local Support - The brand must have local 2nd level support via its distributor that is compliant with global standard like ISO or Duns and Bradstreet to maintain a quality-of-service (QOS) delivery.	
	16-Port PoE Switch + 2 SFP Ports Layer 3 (1 Unit)	
1	Network Interface - Proposed switch must have (16) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
2	Management Interface - (1) RJ45 Serial Port, Ethernet In/Out Band	
3	Non-Blocking Throughput - Must at least provide 18 Gbps	

4	Switching Capacity - <i>Must at least provide 36 Gbps</i>	
5	Forwarding Rate - <i>Must at least provide 26.78 Mbps</i>	
6	Maximum Power Consumption - <i>The network switch must have a maximum power of at least 150W including PoE output and at least 28W excluding PoE output.</i>	
7	Max. PoE Wattage - <i>At least 34.2 W per port</i>	
8	Max. Passive PoE - <i>At least 17W per port</i>	
9	Voltage Range 802.3at Mode - <i>Must have at least 50-57V</i>	
10	24V Passive PoE Voltage Range - <i>Must have at least 20-27V</i>	
11	Power Supply - <i>AC/DC, Internal, 150W DC</i>	
12	Operating Temperature - <i>-5 to 40° C (23 to 104° F)</i>	
13	Operating Humidity - <i>5 to 95% Noncondensing</i>	
14	ESD/EMP Protection - <i>Air: ±24 kV, Contact: ±24 kV</i>	
15	Mounting - <i>Rack-Mountable or Wall-Mountable</i>	
16	Shocks and vibration - <i>Must conform with ETSI300-019-1.4 Standard</i>	
17	Certifications - <i>CE, FCC, IC</i>	
18	Brand/Standard - <i>The technology or brand must either be American or European for a more Global Standard compliance.</i>	
19	Local Support - <i>The brand must have local 2nd level support via its distributor that is compliant with global standard like ISO or Duns and Bradstreet to maintain a quality-of-service (QOS) delivery.</i>	
	24-Port PoE Switch + 2 SFP Ports (2 Units)	
1	Network Interface - <i>Proposed switch must have (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports</i>	
2	Management Interface - <i>(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band</i>	
3	Non-Blocking Throughput - <i>Must at least provide 26 Gbps</i>	
4	Switching Capacity - <i>Must at least provide 52 Gbps</i>	
5	Forwarding Rate - <i>Must at least provide 38.69 Mbps</i>	
6	Maximum Power Consumption - <i>The network switch must have a maximum power of at least 250W including PoE output and at least 30W excluding PoE output.</i>	
7	Max. PoE Wattage - <i>At least 34.2 W per port</i>	
8	Max. Passive PoE - <i>At least 17W per port</i>	
9	Voltage Range 802.3at Mode - <i>Must have at least 50-57V</i>	
10	24V Passive PoE Voltage Range - <i>Must have at least 20-27V</i>	
11	Power Supply - <i>AC/DC, Internal, 250W DC</i>	