

SYSTEM DATA SHEET — INTERNATIONAL

# EXTREME™ Cat 6 UTP System

Standard Cat 6 solution features EXTREME Cat 6 jacks and offers solid performance and value

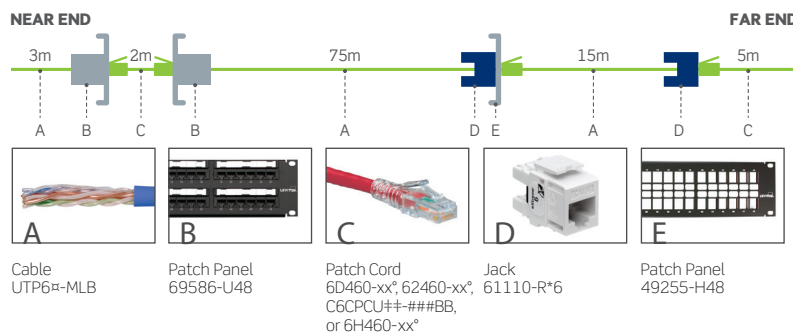
- Exceeds ISO/IEC 11801-1 Class E and ANSI/TIA-568.2-D Cat 6 requirements for cabling systems performance to support IEEE 1000BASE-T networks
- Third-party tested and verified
- Error-free performance up to 1 Gigabit Ethernet with full duplex transmission
- Cost-effective standard Cat 6 solution

## TYPICAL \* SYSTEM PERFORMANCE

EXTREME Cat 6 UTP System channel Margins*								
Insertion Loss	NEXT	PSNEXT	ACR-F (ELFEXT)	PSACR-F (PSELFEXT)	Return Loss	ACR-N	PSACR-N	
5.5%	9 dB	10 dB	10 dB	11 dB	5 dB	10 dB	10 dB	

\*All parameters comply with ANSI/TIA-568.2-D Cat 6 and ISO/IEC 11801-1 Class E requirements across the entire frequency range. All values represent typical margins for 9- to 100-meter channel configurations. System performance is representative of the specific components and topologies as listed on this system data sheet. Typical margin is based on third-party lab verified testing, in-house testing and field test data. Field-installed channel margins may vary based on the accuracy of the handheld tester, system design and installation practices. Only Leviton approved testers may be used. All stated performance specifications are subject to the terms and conditions of the manufacturers warranties. Details at [www.leviton.com](http://www.leviton.com).

## SYSTEM TOPOLOGY



## RECOMMENDED FOR

1000BASE-T network applications

Applications requiring compact, high-density design and reduced cable outer diameter

Network applications in financial, health care, government, transportation, and education environments

PoE standards: IEEE 802.3af, 802.3at, 802.3bt (Type 3), and Cisco UPoE up to 60 watts

Emerging PoE standards such as the draft IEEE 802.3bt, up to 60 watts

AV systems for high-end conference rooms and classrooms

# 6

CAT  
EXTREME



## JACKS

### EXTREME™ CAT 6 COMPONENT-RATED QUICKPORT™ JACKS

- Exceed requirements for Category 6 described in ANSI/TIA-568.2-D and Class E requirements described in ISO/IEC 11801-1
- Patented Retention Force Technology™ protects against time damage and maintains contact force between plug and jack, preventing arcing from intermittent disconnects in PoE applications
- Circuit board technology for exceptional high-frequency operation
- Gas-tight insulation displacement contacts provide excellent conductor retention and resistance to surface-contact oxidation for life of the system
- Pair Separation Tower design facilitates separation of conductors and minimizes untwisting
- Patented dual-layer wiring label simplifies punchdown and reduces rework
- 90 or 180 degree bi-directional entry eases cable bend radius in back boxes
- Supports Power over Ethernet (PoE) —see individual product specifications sheets for full capabilities
- Proudly manufactured in the U.S.



## PATCH PANELS

### EXTREME CAT 6 110-STYLE AND QUICKPORT PATCH PANELS

- 110-style patch panels exceed requirements for Category 6 described in ANSI/TIA-568.2-D and Class E requirements described in ISO/IEC 11801-1
- Independently tested and verified by Intertek (ETL) to meet all TIA component, permanent link, and channel requirements
- 110-Style available in flat and angled
- QuickPort available in flat, angled, recessed, and Zero-U configurations
- Gas-tight insulation displacement contacts provide excellent conductor retention and resistance to surface-contact oxidation for life of the system
- Include color codes for T568A/B wiring schemes



## PATCH CORDS

### EXTREME CAT 6 UTP PATCH CORDS

- Tested and verified by ETL for TIA Category 6 requirements
- 24-gauge stranded for maximum flexibility
- Nominal outer diameter of 5.8 mm (.228") to reduce cable pathways in racks and cabinets
- Make-to-order custom lengths are available

### EXTREME CAT 6 HIGH-FLEX UTP PATCH CORDS

- Bend radius is a narrow 0.60", versus 1.0" for typical Cat 6 patch cords
- Snagless plug design with integrated strain-relief boot
- Dual-rated cable jacket (CM/LSZH)
- Tested and verified to meet ANSI/TIA-568.2-D component requirements
- Supports Power over Ethernet (PoE) — see specification sheet for full PoE Capabilities



## CABLE

### EXTREME CAT 6 UTP CABLE, PLENUM RATED

- Meets ANSI/TIA-568.2-D, ISO/IEC 11801-1 Class E, IEC 61156-5, EN50173, and RoHS Compliant standards
- Optimal support for Gigabit Ethernet
- Supports IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-T (fast Ethernet), and 10BASE-T applications

### CAT 6 UTP CABLE, RISER, CM AND LSHF/LSZH RATED

- Meets ANSI/TIA-568.2-D, ISO/IEC 11801-1 Class E, IEC 61156-5, EN50173, and RoHS Compliant standards
- Optimal support for Gigabit Ethernet
- Supports IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-T (fast Ethernet), and 10BASE-T applications
- Includes non-metallic cross separator allowing for stronger signal strength and less vulnerability to noise interference

## PART NUMBERS - COMMON PART NUMBERS SHOWN. MANY ADDITIONAL COLORS, LENGTHS, AND OTHER OPTIONS AVAILABLE ONLINE.

### JACKS

EXTREME Cat 6 Component-Rated QuickPort Jack 61110-R\*6

### PATCH PANELS

	1RU 24-PORT	1RU 48-PORT	2RU 48-PORT	2RU 72-PORT
Cat 6 Flat 110-Style Patch Panel	69586-U24		69586-U48	
Cat 6 Angled 110-Style Patch Panel	69587-U24		69587-U48	
Flat QuickPort Patch Panel+	49255-H24	49255-Q48	49255-H48	49255-D72
Angled QuickPort Patch Panel+	49256-H24	49256-D48	49256-H48	49256-D72

### PATCH CORDS

	CANADA	LATIN AMERICA	AFRICA	MIDDLE EAST	INDIA	KOREA	ASIA
Cat 6 UTP Patch Cord, SlimLine boot (CM)	6D460-xx°	6D460-xx°	6D460-xx°	6D460-xx°	6D460-xx°	6D460-xx°	6D460-xx°
Cat 6 UTP Patch Cord, standard boot (CM)	62460-xx°	62460-xx°	62460-xx°	62460-xx°	62460-xx°	62460-xx°	62460-xx°
Cat 6 UTP Patch Cord, snagless boot (LSHF/LSZH)			C6CPCU##-###BB	C6CPCU##-###BB	C6CPCU##-###BB	C6CPCU##-###BB	C6CPCU##-###BB
Cat 6 UTP Patch Cord, 28 gauge (CM/LSHF/LSZH)	6H460-xx°	6H460-xx°	6H460-xx°	6H460-xx°	6H460-xx°	6H460-xx°	6H460-xx°

### CABLE

	CANADA	LATIN AMERICA	AFRICA	MIDDLE EAST	INDIA	KOREA	ASIA
EXTREME Cat 6 UTP Cable, CM Rated, blue~		296-UTP6M-MLB	296-UTP6M-MLB	296-UTP6M-MLB	296-UTP6M-MLB	296-UTP6M-MLB	296-UTP6M-MLB
Cat 6 UTP Cable, LSHF/LSZH, blue~		120-UTP6Z-MLB	120-UTP6Z-MLB	120-UTP6Z-MLB	120-UTP6Z-MLB		120-UTP6Z-MLB
EXTREME Cat 6 UTP Cable, Plenum Rated, blue~	310-UTP6P-MLB	310-UTP6P-MLB	310-UTP6P-MLB	310-UTP6P-MLB	310-UTP6P-MLB		310-UTP6P-MLB
EXTREME Cat 6 UTP Cable, Riser Rated, blue~	104-UTP6R-MLB	104-UTP6R-MLB	104-UTP6R-MLB	104-UTP6R-MLB		104-UTP6R-MLB	104-UTP6R-MLB

\* = Color: White (W), Lt. Almond (T), Ivory (I), Yellow (Y), Orange (O), Crimson (C), Dark Red (R), Purple (P), Blue (L), Green (V), Gray (G), Black (E), Brown (B)  
 + = Sold empty, load with 61110 jacks xx = Length: 1 (01), 3 (03), 5 (05), 7 (07), 10 (10), 15 (15), 20 (20) feet ° = Color: White (W), Yellow (Y), Blue (L), Black (E), Red (R), Green (G), Gray (S)  
 ## = Length: 1 (010), 2 (020), 3 (030), 5 (050) meters### = Color: Gray (888), Red (111), Blue (444), Yellow (666)  
 ~ = Sold in 305-meter reel in box, additional colors available, visit leviton.com/cable = Cable Type: CM (M), LSHF / LSZH (Z), Plenum (P), Riser (R)