ADC KRONE

TrueNet™ Structured Cabling

Category 6 Solutions

Release 1.0

Introduction

ADC's TrueNet™ Category 6 patch panels, patch cords, and cables form an end-to-end channel optimized to prepare signal amplitude and deliver zero bit error performance Gigabit Ethernet applications.
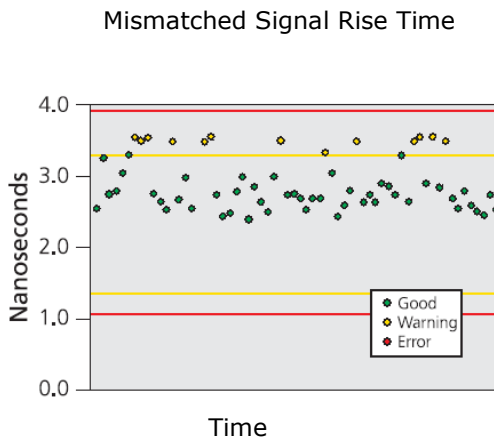
TrueNet Category 6 products deliver exceptional system performance by including features that protect signal integrity and strength. The IEEE specifications for signal amplitude are especially important for Gigabit Ethernet (which uses multilevel encoding). In addition, these features may also enable lower voltage NIC cards to transmit a clean signal.

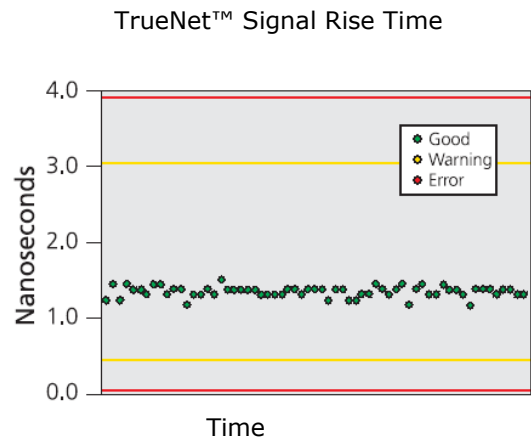The LSA-PLUS®, IDC technology provides a secure, reliable and gas-tight connection.

TrueNet™ Category 6 solutions deliver
● A complete end-to-end channel
● Extra bandwidth, better attenuation
● Zero bit errors
● ISI/IEC 11801, Class E compliance
● Category 6 compliance
● 20-year warranty ensuring systems reliability

The graphs below depict the rise time of both an impedance mismatched and matched system. The mismatched channel falls out of the IEEE specification; the TrueNet system keeps rise time within the IEEE specifications, preserving signal integrity.

Mismatched Signal Rise Time

TrueNet™ Signal Rise Time

The TrueNet channel preserves signal amplitude within IEEE specifications.

The mismatched channel causes signal amplitude to fall out of IEEE specifications.

Category 6 Solutions

Typical Cat 6 Channel Performance

FREQ MHz	ATTN TYPICAL	ATTN STANDARD	ACR pr-pr TYPICAL	ACR pr-pr STANDARD	PS NEXT TYPICAL	PS NEXT STANDARD
31.25	10.9	11.4	41.5	37.0	50.0	45.7
62.5	15.6	16.4	33.3	27.0	45.3	40.6
100.00	20.3	21.1	24.3	18.8	41.5	37.1
200.00	29.5	30.9	9.7	3.9	37.1	31.9
250.00	33.4	35.0	6.7	-1.8	35.6	30.2

PS ACR TYPICAL	PS ACR STANDARD	FREQ MHz	ELFEXT TYPICAL	ELFEXT STANDARD	R/L TYPICAL	R/L STANDARD
39.1	34.3	31.25	36.9	30.3	22.3	17.1
29.7	24.2	62.5	33.4	24.3	20.9	14.1
21.2	16.0	100.00	28.2	20.2	17.2	12.0
7.6	1.0	200.00	20.6	14.2	12.4	9.0
2.2	-4.8	250.00	19.8	12.3	12.0	8.0

SKEW (ns)

FREQ	SKEW	STANDARD
100	4.4	50.0

Typical Cat 6T Channel Performance

FREQ MHz	ATTN TYPICAL	ATTN STANDARD	ACR pr-pr TYPICAL	ACR pr-pr STANDARD	PS NEXT TYPICAL	PS NEXT STANDARD
31.25	10.7	11.4	44.9	37.0	53.0	45.7
62.5	14.9	16.4	35.1	27.0	49.1	40.6
100.00	19.1	21.1	25.8	18.8	43.1	37.1
200.00	28.0	30.9	10.6	3.9	37.8	31.9
250.00	31.8	35.0	7.7	-1.8	36.4	30.2

PS ACR TYPICAL	PS ACR STANDARD	FREQ MHz	ELFEXT TYPICAL	ELFEXT STANDARD	R/L TYPICAL	R/L STANDARD
42.3	34.3	31.25	38.2	30.3	23.2	17.1
34.2	24.2	62.5	34.4	24.3	22.9	14.1
24.0	16.0	100.00	29.8	20.2	18.9	12.0
9.8	1.0	200.00	21.0	14.2	14.1	9.0
4.6	-4.8	250.00	20.4	12.3	13.8	8.0

SKEW (nS)

FREQ	SKEW	STANDARD
100	6.3	50.0

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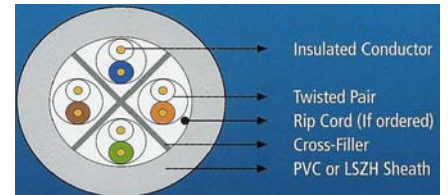
<div style="text-align:center">**Cable**</div>

Description   **4 Pair Unshielded Twisted Pair (UTP) Cable with star filler to UL verified Category 6 specifications**

Part Number   6499 1 030-01

Standard Length 305m per Box

Packaging   Reel-in-a-box

Insulated Conductor
Twisted Pair
Rip Cord (If ordered)
Cross-Filler
PVC or LSZH Sheath

Application   This Enhanced Performance Category 6, 4 pair cable is tested for Power Sum NEXT, ELFEXT, Delay Skew, Propagation Delay and any other criteria as specified in the emerging standard. Applications can include Voice, ISDN, ATM155 and 622 Mbps, 100Mbps TPDDI, Fast and Gigabit Ethernet and any other future applications designed for Category 6 cables.

Cable Data

Conductor:	4 Twisted Pairs of 24 AWG (or better) Solid bare copper wire c/w rip Cord
Insulation:	HDPE (High Density Polyethylene)
Flame Rating:	UL (CM), CMR/MPR optional
Sheath:	PVC; LSZH / Plenum optional
Color:	Creamy Grey

Operating Environment: Indoor
Operating Temperature: -20 to +60℃
Pair 1: Blue - White/Blue
Pair 2: Orange - White/Orange
Pair 3: Green - White/Green
Pair 4: Brown - White/Brown
Nominal UTP Cable OD: 6.0mm

Electrical Performance (At 100MHz)

Standards: EIA/TIA 568B.2-1, ISO 11801
             Class E, EN50173, UL Listed
Impedance: 100 Ohm±15% at 100MHz
DC Resistance:9.38 ohm/100m

Velocity of propagation: 67.5%
Propagation Delay: 538ns/100m
Delay Skew: 45ns/100m
Return Loss: 18.2dB
Mutual Capacitance: 5.5nF/100m

Typical Cable Performance*
*For sample measurement

Frequency (MHz)	Attenuation (dB)		P-S NEXT (dB)		PSACR (dB)		PSELFEXT (dB)	
	Typical	Spec	Typical	Spec	Typical	Spec	Typical	Spec
16	7.2	7.6	69.8	56.2	57.1	46.7	57.0	40.7
31.25	10.2	10.7	67.5	51.9	50.3	39.2	49.10	34.9
62.5	14.6	15.4	55.3	47.4	38.9	30.0	42.70	28.9
100	18.6	19.8	48.2	44.3	31.7	22.5	36.40	24.8
200	27.2	29.0	46.8	39.8	17.4	8.8	26.60	18.8
250	30.3	32.8	45.4	38.3	12.9	3.5	21.60	16.8

Category 6 Solutions

Cable

Description	TrueNet™ C6T (Platinum) 4 Pair UTP Cable
Part Number	TN6TR-GY02
Standard Length	305m per Box
Packaging	Reel-in-a-box

Application

This C6T cable is tested for Power Sum NEXT, ELFEXT, Delay Skew, Propagation Delay and any other criteria as specified in the emerging standard. This C6T cable is based upon a patent-pending technology called TrueMatch™. This product design and manufacturing innovation fine-tunes each cable pair to achieve an operating impedance of 100±3 ohms. Applications can include Voice, ISDN, 10Base-T (IEEE802.3), Broadband & Baseband Video, ATM155 and 622 Mbps, 100Mbps TPDDI, 100VG-AnyLAN (IEEE 802.12), Fast and Gigabit Ethernet, 1.2 Gbps ATM.

Cable Data

Conductor:	4 Twisted Pairs of 24 AWG (or better) Solid bare copper wire c/w rip Cord
Insulation:	100% Polyolefin
Flame Rating:	UL (CM), CMR/MPR optional
Sheath:	Lead-Free Flame Retardant PVC
Color Coding:	Tight Lay System

Operating Environment: Indoor
Operating Temperature: -20 to +75℃
Pair 1: Blue - White/Blue
Pair 2: Orange - White/Orange
Pair 3: Green - White/Green
Pair 4: Brown - White/Brown

Electrical Performance

Standards: TIA/EIA-568-B.2-1, Cat. 6,
ISO/IEC 11801 Class E
NEC 800 Type CMR, UL, ICEA S-90-661
EN50173

Velocity of propagation: 70%
Propagation Delay: 501ns/100m
Delay Skew: 25ns/100m

Differential Characteristic Impedance: 3 Ohms
Insulation Resistance (Min): 500 Megohms/1000 ft.

Operating Voltage (Max): 300 VDC
DC Resistance: 28.6 ohms/1000 ft.
Mutual Capacitance: 17 pF/ft

Typical Cable Performance

Freq MHz	Return Loss (dB)		Attenuation (dB)		NEXT (dB)		P-S NEXT (dB)		Attenuation-to-Next Ratio (Pair to Pair)		Attenuation-to-Next Ratio (PowerSum) dB/100m		ELFEXT Pair-to-Pair (dB/100m)		ELFEXT PowerSum (dB/100m)	
	Typical	Spec	Typical	Spec	Typical	Spec	Typical	Spec	Typical	Spec	Typical	Spec	Typical	Spec	Typical	Spec
16	45.6	25	7	7.6	77.9	56.2	71.6	54.2	70.9	48.7	64.6	46.7	68.8	43.7	62.3	40.7
31.25	42.3	23.6	9.9	10.7	76.1	51.9	67.7	49.9	66.1	41.2	57.8	39.2	62.4	37.9	55.6	34.9
625	42.8	21.5	14.3	15.4	69.5	47.4	63	45.4	55.2	32	46.6	30	56.7	31.9	49.8	28.9
100	39.4	20.1	18.4	19.8	69.9	44.3	61.1	42.3	49.5	24.5	42.6	22.5	52.2	27.8	45.6	24.8
155	41.4	18.8	23.4	25.2	63.7	41.4	56.7	39.4	40.3	16.3	33.2	14.3	46.2	24	40.2	21
200	40.4	18	26.7	29	62.4	39.8	55.6	37.8	35.8	10.8	28.9	8.8	45.1	21.8	38.5	18.8
250	41.9	17.3	30.5	32.8	61.7	38.3	53.7	36.3	31.1	5.5	23.1	3.5	41.5	19.8	34.1	16.8
300	40.1	-	33.8	-	60.9	-	53.6	-	27.2	-	19.7	-	38.2	-	31.2	-
350	40.4	-	36.7	-	56.8	-	48.7	-	20.2	-	12	-	37	-	29.7	-
400	39.8	-	39.3	-	56.2	-	48.8	-	16.9	-	9.4	-	33.4	-	25.9	-
550	38	-	47.1	-	52.4	-	44.6	-	5.4	-	-2.4	-	25.1	-	18.3	-

ADC KRONE

Category 6 Solutions

Patch Panel

Description   **Patch Panel for Cat. 6 Modular Jack**

KRONE Unloaded patch panel can accommodate KRONE Cat. 6 jack. All cage nuts and mounting screws are included. Rear cable minder is included in the single box unit. It fits into 19 inch rack equipment.

Part Numbers	Product Description
6450 1 053-01	16 Port Patch Panel, Unloaded, Black
6450 1 054-01	24 Port Patch Panel, Unloaded, Black
6450 1 055-01	32 Port Patch Panel, Unloaded, Black

∗ Cat. 6 Modular Jacks need to be ordered separately.

Category 6 Solutions

<div style="text-align:center">

Patch Panel

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Description   **RJ45 Coupler Panel**

ADC's RJ45 coupler panel provides feed-through data and voice connectivity on the front and rear for Category 6 applications. Connectivity on the front of the panel accommodates standard RJ45 patch cords. Connectivity for hubs, routers and other active equipment on the back of the panel is also designed for RJ45 patch cords— creating a convenient connection field for data applications. Includes port labeling for front and rear. Width is 48.26 cm (19-inch).

RJ45 Coupler Panel (Front View)

RJ45 Coupler Panel (Rear View)

Part Numbers	Product Description
ADCPP24606	RJ45 Cat. 6 Coupler Panel, 24 Port
ADCPP48606	RJ45 Cat. 6 Coupler Panel, 48 Port

Category 6 Solutions

Cable Minder

Description   **1U 19" Patch Bar, Black**

Part Number   6450 3 149-00

KRONE recommends installing a 1U 19" Patch Bar between every two rows of KRONE patch panel. This provides a separate pathway for the patch cords to be routed to modular jacks. The two rows of evenly spaced slots on the 1U 19" Patch Bar, allow two patch cords to be accommodated in each slot. This ensures that no outlet in the patching facility is ever obscured by patch cords.

Features
● Improve manageability of day-to-day moves and changes.
● Reduced clutter of patch cords.
● 19 inch rack mount metal panel.
● Complementary to KRONE patch panel, finished in graphite grey powder coat.
● Snap-on metal cover provides neat appearance and protects cable from damage.
● Patch cords routed to patch panel through 12 slots in the upper and lower sides
   of panel.
● Provides pathways for cables through two openings in rear of wall panel.
● Supplied with screw packs comprising cage nuts and bolts.

Category 6 Solutions

Patch Cord

Description   Cat. 6 Patch Cord, RJ45 to RJ 45, Molded Boot

Standards
- TIA/EIA 568B.2-1
- ISO/IEC 11801
- EN50173

Applications
- Ethernet 10 BaseT
- Fast Ethernet 100 BaseT
- Gigabit Ethernet 1000 BaseT
- ATM 155 Mbit/s
- TP-PMD 125 Mbit/s
- Cabling sharing (same or different services)
- CDDI/TPDDI (FDDI on copper)
- Token Ring 4/16 Mbit/s
- Analogue Telephony, ISDN

Description	Part Number
KRONE Cat. 6 RJ45 Patch Cord, Molded Boot, UTP, PVC, Grey, 1M	6451 5 994-10
KRONE Cat. 6 RJ45 Patch Cord, Molded Boot, UTP, PVC, Grey, 2M	6451 5 994-20
KRONE Cat. 6 RJ45 Patch Cord, Molded Boot, UTP, PVC, Grey, 3M	6451 5 994-30

Remark: Other cable length is also available if required.

Packing: 1 piece/bag

Description   Cat. 6 RJ45 Patch Cord, Blue

The plug is designed with built-in strain relievers that prevent the cable from moving at the termination point when the cable is flexed, and that maintain the proper bend radius. Both of these innovations are designed to ensure maximum throughput in TrueNet installation.

Description	Part Number
TrueNet Cat. 6T RJ45-RJ45, Patch Cord, Blue, 4 feet	TP6TZ-BL04
TrueNet Cat. 6T RJ45-RJ45, Patch Cord, Blue, 7 feet	TP6TZ-BL07
TrueNet Cat. 6T RJ45-RJ45, Patch Cord, Blue, 10 feet	TP6TZ-BL10
TrueNet Cat. 6T RJ45-RJ45, Patch Cord, Blue 15 feet	TP6TZ-BL15
TrueNet Cat. 6T RJ45-RJ45, Patch Cord, Blue 25 feet	TP6TZ-BL25

![ADC KRONE logo]

Category 6 Solutions

Patch Cord

Description   **KM8 RJ45 Cat. 6T Patch Cord**

Standards

- TIA/EIA 568B.2-1
- ISO/IEC 11801
- EN50173

![6T logo]

KRONE KM8 RJ45 patch cords have a transparent boot to maintain the minimal bending radius. The plug contains standard locking latch plus latch release, preventing patch cords from snagging (field problems with breaking locking latches have been identified in the past).

Applications

- Ethernet 10 BaseT
- Fast Ethernet 100 BaseT
- Gigabit Ethernet 1000 BaseT
- ATM 155 Mbit/s
- TP-PMD 125 Mbit/s
- Cabling sharing (same or different services)
- CDDI/TPDDI (FDDI on copper)
- Token Ring 4/16 Mbit/s
- Analogue Telephony, ISDN

Minimum required distance between 2 ports is slightly more than 12.5 mm (0.49 ")

Benefits

- Best performance built-in cable manager inside the plug

- Fits perfectly in high density outlets (switch, panel, etc.)

Description	Part Number
KM8 Cat. 6T RJ45-RJ45, Patch Cord, Grey, 1M	6830 2 837-04
KM8 Cat. 6T RJ45-RJ45, Patch Cord, Grey, 2M	6830 2 837-07
KM8 Cat. 6T RJ45-RJ45, Patch Cord, Grey, 3M	6830 2 837-10
KM8 Cat. 6T RJ45-RJ45, Patch Cord, Grey, 5M	6830 2 837-15

Remarks:
Other cable length is also available if required.

Packing: 1 piece/bag

Category 6 Solutions

Modular Jack

Description   KM8 Cat. 6 Modular Jack

Product Feature
● Exceeds TIA/EIA Cat. 6 requirements.
● 45º silver-plating IDCs provide secure, reliable gas-tight connections.
● Compatible with KRONE 45º faceplate surface mount boxes and patch panels.
● 3rd party certified performance.

Features of the KM8 Jack cable management
● Fixes the pairs & single wires.
● Isolates cable pairs in the cable manager for superior Cat. 6 performance.
● Defines the distance between pairs.
● Submits simultaneous termination.

Electrical Data
Insulation resistance	$\geq$500 MOhm (IEC521-2-3a)
Dielectric strength	Contact/contact 1.0 KV
Dielectric Strength	Contact/shielding 1.5 KV

Terminations
Typ. termination resistance	$\leq$20 mOhm (EN 60603-7)
Current carrying capacity	$\geq$1A (EN60905) (DIN EN 60603-7)
Insertion cycles	$\geq$750 (IEC 512-2-13b)

Mechanical Data
Shield connection	Patented 360º Shielding
Conductor diameter	0.5— 0.6 mm (AWG 22-24)
Insulation diameter	1.05—1.6 mm
Re-termination of LSA-PLUS contacts	$\geq$200
Insertion/pullout force	20 N (EN60603-7)

Environmental
Use in dry rooms according to environmental 3.1 according to ETS 300 019-1-3 at ambient temperatures of +5º to +40ºC.

KM8 Jack Installation Tool

without Cap   With Cap

Part Numbers	Product Description
6830 1 800-01	KM8 Cat. 6 Modular Jack UTP, White (100 pcs/bag)
6830 1 800-04	KM8 Cat. 6 Modular Jack UTP, Black (100 pcs/bag)
6830 1 490-00	KM8 Jack Installation Tool

Category 6 Solutions

Modular Jack

Description   KM8 Cat. 6 Modular Punch Down Jack

Product Feature

● Exceeds TIA/EIA Cat. 6 requirements.

● 45º silver-plating IDCs provide secure, reliable gas-tight connections.

● Compatible with KRONE 45º faceplate surface mount boxes and patch panels.

Technical specification

Operating temperature range	-40°C to + 70°C
RJ Socket, 8 Positions, General Specification	FCC Part 68.500 (IEC 603-7)
Transmission, performance and reliability (channel basis) for loaded version	≥ ANSI/EIA/TIA Category 6 ≥ ISO/IEC 11801 Class E
Number of plug insertion cycles	≥ 750 (IEC/EN 60603-7)
LSA-PLUS Insulation Displacement Wire diameter range for solid and stranded copper conductors Wire insulation diameter range (PE, PVC)	22-24 AWB (0.50 to 0.65mm) 0.041" to 0.063" (1.04 to 1.60 mm)
Contact resistance	≤ 1mΩ typical
Contact re-terminations	≥ 200
Maximum relative humidity	≤93% non-condensing
Safety rating	UL 1863
Flammability rating	UL 94 V-0

Description   Part Number

Description	Part Number
KRONE Cat. 6 KM8 Punch Down Jack, White	6830 1 830-01
KRONE Cat. 6 KM8 Punch Down Jack, Black	6830 1 830-04

Category 6 Solutions

Faceplate

KRONE Faceplates are designed, tested and certified to meet the highest standards in performance and reliability. These faceplates are suitable for KRONE outlets. Package includes clear plastic label, blank paper label and mounting screws.

Physical Characteristics
Faceplates are made of high-impact, flame retardant, UV inhibited, UL-rated 94V-0 thermoplastic.

SMK Box, 1 Port	6467 1 101-00	Ivory	
SMK Box, 2 Port	6467 1 102-00	Ivory	
Can accept KM8 punch down jack, KM8 modular jack, UTP			
US style horizontal faceplate - Single	6538 3 112-03	White	
US style horizontal faceplate - Double	6538 3 112-04	White	
Can accept KM8 modular jack UTP (w/ blue cap), Cat 5e keystone jack, UTP. CANNOT accept KM8 punch down jack, UTP.			
Highway Media Flush Mount Plate (Single), box of ten	6467 1 108-00	White	
Highway Media Flush Mount Plate (Dual), box of ten	6467 1 110-00	White	
Can accept KM8 punch down jack, KM8 modular jack, UTP. Cat 5e keystone jack, UTP.			
US style 2-port Horizontal Faceplate	6644 1 112-XX	01=white	
Can accept KM8 punch down jack, KM8 modular jack, UTP. Cat 5e key stone jack, UTP.			

Multimedia Patch Panel

Description   **Multimedia Patch Panel**

48-ports with Angled 6000 Modular Jacks and Flat 6000 BNC Media Adapters

Features

● Category 6 performance.

● Front or rear loading, single-circuit access saves time in moves, adds, and changes.

● The highest density panel available.

● Build each patch panel for twisted pair, fiber and coax applications using any mix of 6000 modular jacks and 6000 media adapters.
  - Jacks and media adapters installed and removed in single circuits.
  - For Category 6 modular jack applications.
  - Singlemode and multimode fiber applications using LX.5, LC, SC, duplex SC, and ST® media adapters.
  - Handles applications for BNC, F-adapter, RCA-adapters, and S-Video adapters.

● Creates angle-right/angle-left or conventional flat panel profile.

● Simple installation and removal of individual jacks/adapters allows for rapid change-over and minimized downtime.

● Supports 10Base-T, 100Base-T and 1000 base-T Ethernet, token ring, up to 155 Mbps ATM and proposed 1000 Base-TX.

● Includes port numbers or row identification and write-on panel labels.

● Jacks and adapters install without panel faceplates or pairing of jacks/adapters.

● Available in standard and high-density port sizes.
  - Standard sizes— 24 ports/1 RU, 48 ports/2 RU, 96 ports/4 RU.
  - High-density sizes— 32 ports/1RU and 72 ports/2 RU.

Description	Rack Units	Part Number
6000 Multimedia Patch Panel Chassis, 24 ports	1 rack unit	ADCPP246SUM
6000 Multimedia Patch Panel Chassis, 32 ports	1 rack unit	ADCPP326SUM
6000 Multimedia Patch Panel Chassis, 48 ports	2 rack unit	ADCPP486SUM
6000 Multimedia Patch Panel Chassis, 72 ports	2 rack unit	ADCPP726SUM
6000 Multimedia Patch Panel Chassis, 96 ports	4 rack units	ADCPP966SUM
6000 Multimedia 3 recessed patch panel chassis, 24 ports	1 rack unit	ADCPP246SUMR3

Remarks: Modular jacks and media adapters are ordered separately.

Dimensions (W x H x D)
1RU   (48.26 x 4.45 x 1.27cm)
2RU   (48.26 x 8.81 x 1.27cm)
4RU   (48.26 x 17.70 x 1.27cm)

Category 6 Solutions

Multimedia Patch Panel

Description   Multimedia Patch Panel—6000 Modular Jacks and Icons

Angled Jack   **Flat Jack**   **Icon**

Features
● Category 6 performance.
● Backward compatible in component, link and channel.
● Supports 10Base-T and 100Base-T Ethernet, 1000 base-T Ethernet, token ring, up to 155 Mbps ATM and 1000Base-TX.
● Supports any next generation applications designed for TIA/EIA Category 6 transmission requirements.
● Available in flat profile or angled version for bend radius protection in universal T568A and T568B wiring schemes.
● Includes one jack with color-coded 110 IDC connections and clear stuffer cap.
● Universal T568A/B wiring.

Description	Part Number
6000 Cat. 6 Angled Modular Jacks	ADCJA6XX*
6000 Cat. 6 Flat Modular Jacks,	ADCJF6XX*
Blank Inserts (10 pcs per pack)	ADC6SADUMBKXX*
Icons for Angled Modular Jacks, Blank (25 pcs per pack)	ADC6SICNPXX*
Icons for Angled Modular Jacks, Data (25 pcs per pack)	ADC6SICNDXX*
Icons for Angled Modular Jacks, Voice (25 pcs per pack)	ADC6SICNVXX*
Icons for Flat Modular Jacks and Patch Panel, Blank	ADCICBXX*
Icons for Flat Modular Jack and Patch Panel, Data	ADCICDXX*
Icons for Flat Modular Jack and Patch Panel, Voice	ADCICVXX*

* Replace the XX in the ordering number with choice of color, below.

00 = Ivory
01 = White
02 = Black
03 = Red
04 = Green
05 = Blue
08 = Orange
09 = Yellow
10 = Purple
11 = Brown

Category 6 Solutions

Multimedia Patch Panel

Description   **Multimedia Patch Panel—6000 Media Adapters**

Features
● Fully supports fiber, coax, RCA and S-Video applications.
● Available in angled or flat profiles.
● Blank inserts available to fill unused ports on 6000 multimedia patch panels.

Description for Flat Media Adapters	Part Number
Singlemode LX.5	ADC6SADUMSMLX5XX*
Multimode LX.5	ADC6SADUMMMLX5XX*
Singlemode LC	ADC6SADUMSMLCXX*
Multimode LC	ADC6SADUMMMLCXX*
Singlemode SC	ADC65ADUMSMSCXX*
Singlemode duplex SC	ADC6SADUMSMDSCXX*
Multimode SC	ADC6SADUMMMSCXX*
Multimode duplex SC	ADC6SADUMMMDSCXX*
Singlemode ST	ADC6SADUMSMSTXX*
Multimode ST	ADC6SADUMMMSTXX*
BNC	ADC6SADUMBNCXX*
F-adapter	ADC6SADUMFCNXX*
RCA-Adapter	ADC6SADUMRCAFXX*
S-Video	ADC6SADUMSVHSFXX*

Description for Angled Media Adapters	Part Number
Singlemode LX.5	ADC6SADANSMLX5XX*
Multimode LX.5	ADC6SADANMMLX5XX*
Singlemode LC	ADC6SADANSMLCXX*
Multimode LC	AD6SADANMMLCXX*
Singlemode SC	ADC6SADANSMSCXX*
Singlemode duplex SC	ADC6SADANSMDSCXX*
Multimode SC	ADC6SADANMMSCXX*
Multimode duplex SC	ADC6SADANMMDSCXX*
Singlemode ST	ADC6SADANSMSTXX*
Multimode ST	ADC6SADANMMSTXX*

Description for Banks Inserts	Part Number
Bank Inserts (10 pcs per pack)	ADC6SADUMBKXX*

* Replace the XX in the ordering number with choice of color, below.

    00 = Ivory
    01 = White
    02 = Black

Category 6 Solutions

Termination Block System

Description   **Ultim8™ Disconnection Module**

Part Number   6468 5 060-06

Features
● UL certified.
● Performance exceeds TIA/EIA Category 6.
● Designed to support Gigabit Ethernet transmission speeds.
● A test port provides "Look-both-ways" testing capability without the removal of any wires, also allows simple circuit monitoring through a test cord.
● Provide unique path-by-exception functionality.

Technical Specification

Environment for use	Indoors in dry closed rooms
Operating temperature range	-10°C to +60°C
Maximum relative humidity	93% non-condensing
Transmission, performance and reliability	Exceeds the ISO/IEC 11801 Cat. 6 Class E Standard
Number of patching cycles	750
Wire diameter range for solid and stranded copper conductors	0.4 – 0.65 (26-22 AWG)
Wire insulation diameter range (PE, PVC)	0.7 – 1.4mm
Voltage rating	≦150 VAC
Insulation resistance	≧100 MΩ at 500 VDC
Safety	UL 1863
Flammability rating of plastic housing	UL 94 V0

Description   **Universal Mounting System**

Part Number   6657 2 165-00

KRONE Universal Mounting System is a rugged, low cost, versatile alternative to traditional mounting systems. Besides providing a sturdy, easy-to-install interlinking foundation, the UMS features built-in wire and cable management, and convenient add-ons. The mounting brackets interlink left-to-right and top-to-bottom.

Description   **Category 6 Patch Cords for Ultim8™ Module**

These patch cords allow direct patching capacity between Ultim8 module or patching from an Ultim8™ module to an active device or an RJ 45 patch panel.

Part Numbers	Product Description
TP6TROBLxx	Ultim8 Plug to RJ45 Plug, T568A, Blue
TP6TH-BLxx	Ultim8 Plug to Ultim8 Plug, Blue

xx: (04) = 4 feet, (07) = 7 feet, (10) = 10 feet, (15) = 15 feet

About ADC

Founded in 1935, ADC has served the communications industry for more than half a century and today is a leading supplier of global network infrastructure products and services. In 2004, ADC acquired the KRONE Group, a leading global supplier of copper and fiber-based connectivity solutions and cabling products. The integration of these two companies positions ADC with annual sales exceeding $1 billion dollars and an employee base exceeding 7000 professionals worldwide.

The company conducts business in more than 100 countries and operates primary facilities in Minneapols, Minnesota, Denver, Colorado; Sidney, Nebraska; Bennington, Vermont; Santa Teresa, New Mexico; Delicias and Mexico City, Mexico; Berlin, Germany; Glennothes, Scotland; Chelthanham and Richmond, Great Britain; Shanghai, China; Berkley Vale, Australia; Cotia, Brazil; and Bangalore, India.

Customers around the world include leading communications service providers and enterprises of all types.

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