![Nitrotel Manufacturing - Low Voltage Products & Fiber Optic]
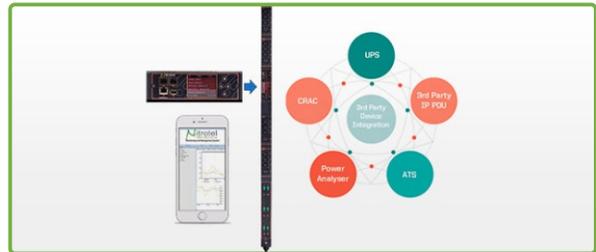
Nitrotel Data Center Solution

CABINETS

AISLE CONTAINMENT

FIBER OPTIC SYSTEMS

POWER MANAGEMENT

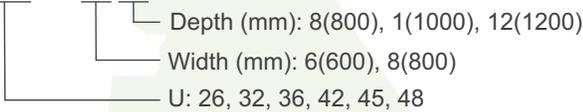## COPPER CONNECTIVITY CAT 6A

CABLE ADMINISTRATIONS

Server Cabinet

Features

- Reversible mesh Door, 78% perforation.
- Innovative vertical split side panels provide superior access to network devices and cabling.
- Constructed on heavy duty steel and finished with electrostatic black paint RAL 9005.
- Fully compatible with 19" rack-mount equipment.
- Comes complete with casters, floor leveller and Grounding Kit.
- Include module with 4 or 6 FANs UL Approved
- Exclusive Flat Pack maximizes space utilization for

Ordering Information

N T N S C XX U X X

— Depth (mm): 8(800), 1(1000), 12(1200)
— Width (mm): 6(600), 8(800)
— U: 26, 32, 36, 42, 45, 48

Colocation Cabinet

Features

- Co-location in 2, 3 or 4 compartment.
- Perforated front and rear door with 2, 3 or 4 digital lock
- Removable and lockable side panels; 4pcs mounting rails (19″mounting rail) and 2pcs vertical cable management
- 4pcs 2″castors, and 4 pcs levelling feet
- High-flow perforated front and rear doors (78%)
- Exclusive Flat Pack maximizes space utilization for transportation and storage Ready assembled construction
- Robust steel frame makes static loading capacity up to 1200kg (2666lbs)

Ordering Information

N T C O L O XX U X X-X   (Compartments 2, 3, 4)

— Depth (mm): 8(800), 1(1000), 12(1200)
— Width (mm): 6(600), 8(800)
— U: 42, 45, 48

Seismic Resistant Server Cabinet

Features

- Server Free Standing Rack Cabinet 36 to 47U
  W:600 or 800mm. D: 800, 900, 1000 or 1200 mm
- Heavy duty construction with welded front & rear frames, double layer vertical structure 3mm thickness
- High load carrying capacity (standard 1500kg)
- High-flow perforated front and rear doors (78%)
- Ready assembled construction
- Telcordia GR-63-CORE-Seismic zone 4

Ordering Information

N T S S C XX U X X

Depth (mm): 6(600), 8(800), 1(1000), 11(1100), 12(1200)

Width (mm): 6(600), 8(800)

U: 36, 42, 45, 48

Add "G" at end of part number for Glass tempered door option

Soundproof Cabinet

Features

- Cooling: Ultra-low-noise fan module.
- Structure: Composite wood with acoustic lining for quiet and secure hardware.
- Cable management: Front right/left accessory channels and bottom cable egress.
- Mobility: Four 360-degree rotating casters.
- Access: Rear and side panels for installation/maintenance.
- Door locking: Key-operated lock, combo-style option available.

Ordering Information

Product Code	U-Space	Height	Width	Depth	Number of Fans
NTSPC17U71	17U	957 mm	750mm	1000mm	3 pieces
NTSPC26U71	26U	1357 mm	750mm	1000mm	6 pieces
NTSPC36U71	36U	1801 mm	750mm	1000mm	9 pieces
NTSPC42U71	42U	2068 mm	750mm	1000mm	9 pieces

Nitrotel Uranus series is an integrated product that contains cooling, energy/ups, fire extinguisher, access control and monitoring requirements in just one cabinet in order to meet the it infrastructure needs of the industrial facilities, offices, branches and dealer locations. Options of 450 up to 3700 w; 26, 36 and 42U and 600 or 800mm of width. Side or top mounting colling unit. RAL 7035 (light gray) or RAL 9005 (black).

Roof or Side Panel Mounted Cooling Unit Options

Features
- Top Mount / Top Type , Digital Smart Controller
- A Class Equipment , Large Space Between Fins of Condanser Unit
- Openable cover, Easy Maintenance , Smart digital display and Smart electronic control
- Remote control with Ethernet and RS485 Communication
- Door switch connection
- Fault warning system/dry contact; faults can be read on PLC or 220 V output
- Steel out body, modern design. Painted or Stainless or (optional)
- Cooling power options: 450W-1000W-1700W-2700W-3700W

Ordering Information

N T S C X X M 6 1 - Y Y Z - 600x1000mm

N T S C X X M 8 1 - Y Y Z - 800x1000mm
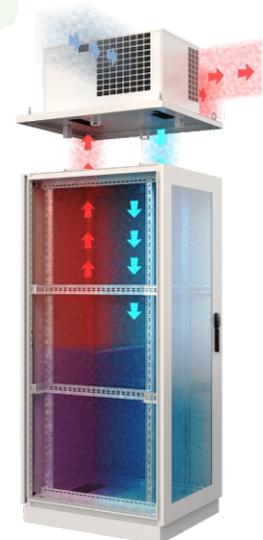
XX U: 26, 36, 42
YY: W 450(04), 1000(10), 1700(17), 2700(27), 3700(37)
Remarks: Black and AC lateral mounting, options light gray and AC top monting.

For all the systems it's available:
- Remote monitoring and management
- of cabinet doors via a rack-mounted control unit.
- High-efficiency UPS with DSP, 1.0 PF, 95% efficiency, wide input range smart battery management,
- Aerosol extinguishers combat Class A, B, C, and electrical fires in enclosed spaces.

Aisle Containment

Nitrotel Datacenter Server Cabinets are designed for providing Hot Aisle, Cold Aisle, and its containment structure.

Features
- Maximum performance for cooling of IP20 and IP55 solutions.
- Wide Range of cabinet sizes and ample variety accessories.
- Maximum inner space for servers
- Minimum environmental space requirement
- Professional cable management
- Heavy duty structure
- Compatibility with all vendors' servers
- High technical performance; grounding continuity
- Power/Energy Management,
- Controllable and reliable security by monitoring
- Aesthetic and professional view

Ordering Information

Layout
Detailed location plan

 # Aisles
 # Cabinets per aisle
1 or 2 rows

Cabinets Dimensions
Height: 42, 45 or 48U
Width: 600 or 800mm
Depth: 1000 or 1200mm

Details
 # Access Doors/Access Type
Cabinet Top and Base Type
Cabinet Door Detail
Floor Anchoring

Fiber Optic Solution

UHD MPO/MT-LC Patch Panel

1U–4U UHD MPO/MTP-LC Fixed Rack Patch Panel (12 cassettes)
Ultra high-density panel with 12-fiber cassettes, MTP/MPO rear, LC front adapters. Optimized for cable management, fast deployment, and lower installation costs.

Features
- Powder-coated cold rolled steel
- 19" rack mount, fixed/sliding tray
- Transparent PC front cover
- Removable top for easy access
- IEC-61754-7, TIA-604-5, TIA-568.3, TIA-942, RoHS compliant

Ordering Information

Patch Panel Ordering Number

Part Number	RMU	Max # Cassettes	Max # Fibers
NTDIOMPUH01	1	12	144
NTDIOMPUH02	2	24	288
NTDIOMPUH04	4	48	576

Cassette Ordering Number

Part Number	Ports LC	Glass	Remarks
NTMPCSUH12Q	12	MM Om3	Adapters LC Aqua
NTMPCSUH12V	12	MM Om4	Adapters LC Violet
NTMPCSUH12S	12	SM	LC/UPC Blue, MTP/APC

MPO/MTP (Male) -LC
12F 0.9mm fanout 30cm

Available for SM, OM1, OM2, OM3, OM4, OM5

HD MPO/MT-LC Patch Panel

1U up to 4U HD MPO/MTP-LC Full cover Fixed Rack mounted Patch panel-MPO cassettes.
High-density MTP/MPO-LC panels and cassettes (12/24 fibers) with front adapters and rear MTP/MPO ports for efficient cabling, quick setup, and lower costs.
Materials: steel panel, aluminum cassette, plastic adapter plate

Ordering Information

Patch Panel Ordering Number

Part Number	RMU	Max # Cassettes	Max # Fibers
NTDIOMPH01	1	MM Om3	96
NTDIOMPH02	2	MM Om4	192
NTDIOMPH04	4	SM	384

Cassette Ordering Number

Part Number	Ports LC	Glass	Remarks	Max IL (dB)
NTMPCSH12Q	12	MM Om3	Adapters LC Aqua, MPO-12	0.50
NTMPCSH12V	12	MM Om4	Adapters LC Violet, MPO-12	0.50
NTMPCSH12S	12	SM	Adapters LC Blue, MPO/APC-12	0.50
NTMPCSH24Q	24	MM Om3	Adapters LC Aqua, 2 x MPO-12	0.50
NTMPCSH24V	24	MM Om4	Adapters LC Violet, 2 x MPO-12	0.75
NTMPCSH24S	24	SM	Adapters LC Blue, 2 x MPO/APC-12	0.75

MPO/MTP (Male) -LC
12F 0.9mm fanout 30cm

Available for SM, OM1, OM2, OM3, OM4, OM5

Premium Modular Optical Distribution Frame (ODF)

EngineerPro™ Fiber Optic Patch Panels, available in 1U, 2U and 4U sizes for 19-inch rack-mounted systems, are designed to accommodate industry-standard LGX adapter or cassette modules from Nitrotel or other vendors, ensuring flexibility and compatibility.

- **Features**
- Large, translucent window provides clear view of the patching field.
- Splice Trays (2, 4 or 8)
- Complete front and back panel access to any/all modules In the panel.
- Excellent cable management

Ordering Information

NTDIOXUXXR1

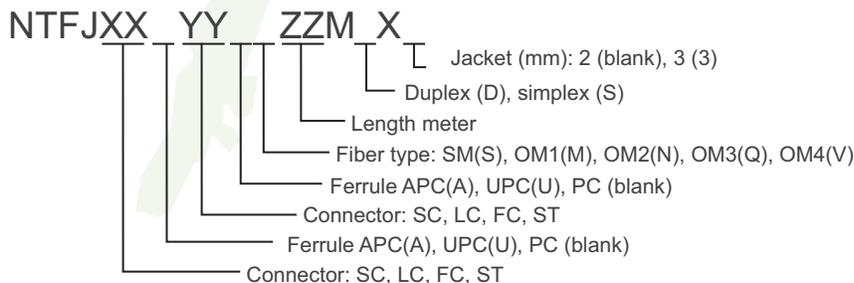| Color		
	BK	Black
	GY	Gray

1U, 2U & 4U

Fiber Optics Patch Cord

Nitrotel offers a complete line of fiber optic patchcords.
They have high quality components and are manufactured to complywith industry standards for optical, mechanical, and environmental performance. The wide selection of connectors, cable types, and lengths ensures that patch cords can be optimized for each unique installation.

Features:
- Connector types include SC or LC
- MM OM3 or OM4; SM with APC and UPC Type and standard fiber G657A1 (Others on request)
- Customized fiber lengths, connector pairs, and hybrids can be specified. Dúplex or simplex options
- Buffer size: 900 µm, Outer jacket 2.0 (Others on request)
- Standard Jacket LSZH (Others on request)

Ordering Information

NTFJXX YY ZZM X

- Jacket (mm): 2 (blank), 3 (3)
- Duplex (D), simplex (S)
- Length meter
- Fiber type: SM(S), OM1(M), OM2(N), OM3(Q), OM4(V)
- Ferrule APC(A), UPC(U), PC (blank)
- Connector: SC, LC, FC, ST
- Ferrule APC(A), UPC(U), PC (blank)
- Connector: SC, LC, FC, ST

Example
NTFJSCULCAS05MSX3: Simplex SM SC/UPC to LC/APC, 5 meters, 3mm
NTFJSCSCQ03MDX: Duplex MM Om3, SC to SC, 3 meters, 2mm

PRODUCT DATA SHEET

Category 6A Solution

Cable U/UTP Cat 6A

Features
- Meets or exceeds requirements of ANSI/TIA-568.2-D
- Category 6A and ISO 11801 2nd Edition Class EA channel standards.
- Meets or exceeds requirements of IEC 61156-5
- Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE+ or PoE++ applications.
- Third party tested to comply with ANSI/TIA/EIA-568.2-D
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
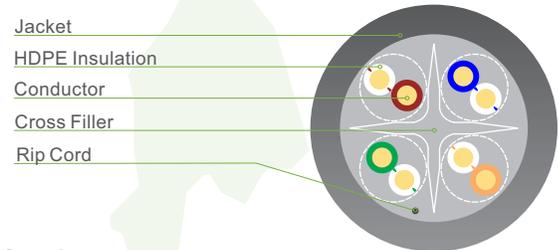- UL and ETL Verified.

Jacket
HDPE Insulation
Conductor
Cross Filler
Rip Cord

Order information

NTNC6A_ _ - _

Jacket Color

BU	RD
GY	BK
WH	YL
GN	PR

Item	Outer Jacket	Overall diameter(mm)
P	CMP	7.5±0.2
C	CM	7.5±0.2
R	CMR	7.5±0.2
L	LSZH	7.5±0.2

Conductor

Conductor	Solid Bare Annealed Copper 23AWG
Insulation	HDPE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown
Individual pair shield	None
Overall shield	None
Drain wire	None

ADSS TENSION CLAMPS

Features
- Meets or exceeds requirements of ANSI/TIA-568.2-D
- Category 6A and ISO 11801 2nd Edition Class EA channel standards.
  Meets or exceeds requirements of IEC 61156-5
- Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE+ or PoE++ applications.
- Third party tested to comply with ANSI/TIA/EIA-568.2-D
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
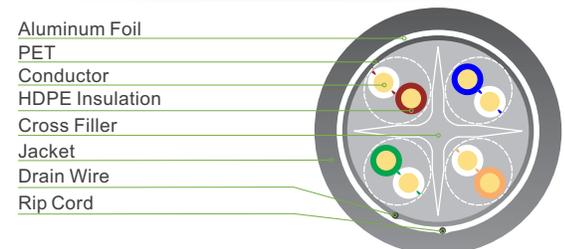- UL and ETL Verified

Aluminum Foil
PET
Conductor
HDPE Insulation
Cross Filler
Jacket
Drain Wire
Rip Cord

Order information

NTNC6A_ _FTP-_

Jacket Color

BU	RD
GY	BK
WH	YL
GN	PR

Item	Outer Jacket	Overall diameter(mm)
P	CMP	7.6±0.2
C	CM	7.6±0.2
BLANK	CMR	7.6±0.2
L	LSZH	7.6±0.2

Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	HDPE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	blue x white, orange x white, green x white, brown x white
Individual pair shield	None
Overall shield	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	Tinned copper

Patch-Panel Unshielded Cat 6A

Features
- Standard density 1U 24-port, 2U 48-port.
- Exclusive crisscross design provides maximum alien crosstalk protection.
- Convenient rear cable management bar to facilitate proper bend radius of cables.
- Compatible with industry-standard 19" racks.
- Universal T568A/568B wiring labels for 110-style IDC termination.

Mechanical
1. Housing Material: PBT
2. Panel Frameme: Carbon Steel, Powder coating in blanck color

Order Information
24 Ports: NTPP6A24U
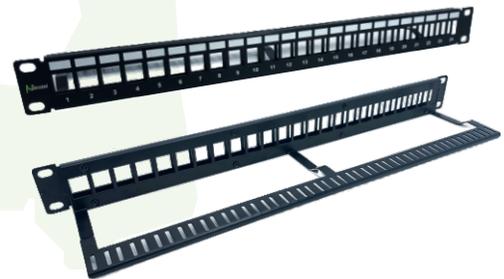48 ports: NTPP6A48U

Patch-Panel Modular (Unloaded)

Features
- 24 or 48 ports, UTP or FTP blank patch panel for use with Cat. 6A, 6 or Cat.5e keystone jacks
- Cable management bar includes
- 19" Standard Rack Mount
- Exclusive design for maximum alien crosstalk suppression.

Order Information
24 Ports UTP: NTBP24U
48 ports UTP : NTBP48U
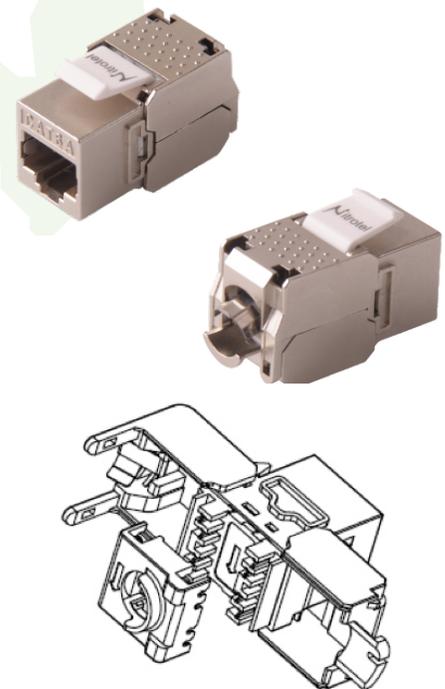24 Ports UTP: NTBP24USH
48 ports UTP : NTBP48USH

Keystone Jack Unshielded Cat 6A

Features
- Backward compatible.
- Compliant with EIA/TIA-568.2-D Cat6A connecting hardware specifications.
- PoE standards: IEEE 802.3af, 802.3at, 802.3bt,
- Dual-color coded labeling made for both 568A & 568B
- Compact slim design fits into any conventional face plate, outlet box, or panel.
- Patented Printed Circuit Board designed to meet Cat6A performances.
- Insertion life: 750 cycles minimum.
- 50u" gold plated contacts.

Order Information

NTKJ6A_ _ SL

Color

BU	RD	WH	YL
GY	BK	GN	OR

Special orders available upon request.

Keystone Jack Shielded Cat 6A

Features
- Backward compatible
- Compliant with EIA/TIA-568.2-D Cat6A connecting hardware specifications.
- Patented Printed Circuit Board designed to meet Cat6A performances.
- Insertion life: 750 cycles minimum.
- 50u" gold plated contacts.
- Robust die-cast housing.
- 270 wide-angle hinge provides easy access and termination.
- Tooless design. No punchdown tool required; snaps closed when termination is complete.
- Compatible with S/FTP, F/UTP, U/FTP and other common shielded cable types.
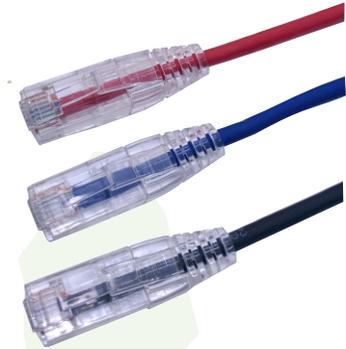
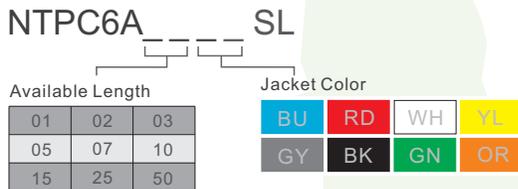**Order Information**

NTKJ6ASHSL

Keystone Jack Unshielded Cat 6A

Features
- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 6A and ISO/EIC specifications.
- PoE Compliance: Supports IEEE 802.3f/ 802.3at /802.3bt at
- PoE++ applications.
- 10GBASE-T Ethernet
- Independently tested and verified UL and ETL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different color of cable and different length.
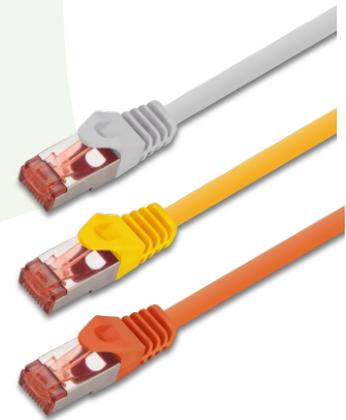
Order Information

NTPC6A_ _ _ _ SL

Available Length

01	02	03
05	07	10
15	25	50

Jacket Color

| BU | RD | WH | YL |
| GY | BK | GN | OR |

Special orders available upon request.

Conductor

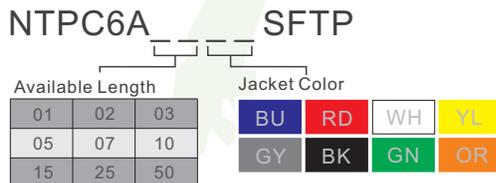| Conductor	Stranded Bare Copper 28 AWG
Insulation	HDPE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown
Individual pair shield	None
Overall shield	None
Drain wire	None

Patch Cords S/FTP Cat 6A

Features
- Electrical performance guaranteed to meet or exceed
- ANSI/TIA-568.2-D Category 6A and ISO/EIC specifications.
- PoE Compliance: Supports IEEE 802.3f/ 802.3at /802.3bt at PoE++ applications.
- 10GBASE-T Ethernet
- Independently tested and verified UL and ETL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different color of cable and different length

Order Information

NTPC6A_ _ _ _ SFTP

Available Length

01	02	03
05	07	10
15	25	50

Jacket Color

| BU | RD | WH | YL |
| GY | BK | GN | OR |

Special orders available upon request.

Conductor

Conductor	Standed bare copper 27AWG
Insulation	PE(Foam-Skin)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	blue x white, orange x white, green x white, brown x white
Individual pair shield	aluminum foil, providing 100% coverage, foil face out
Overall shield	Tinned copper braid
Drain wire	None

Smart PDUs

Nitrotel AI-Pack Central Management Software PDUs

You can distribute power with a high-tech intelligent PDU that can be equipped with ambient monitoring sensors with a user friendly interface for monitoring and managing the power consumption of your Data Center Cabinets. You can professionally monitor your entire energy infrastructure with the optional AI-Pack central management software, which is optionally available.

+/-1%
High energy measurement accuracy +/- 1 &

ModBus Option
Low cost ModBus option

Heat Resistance
Ability to work up to 65oC temperature and to read measured values steadily

Colour Options
Black, blue and red PDU options

Dimensions
Thin section (profile) construction   Differential design with 56 cm depth and 56 cm width

Relay Output Option
Relay output PDU provides remote control on active devices.

LCD Display
320x240 pixel color LCD display with all kinds of parameters and alarm display, information feature

PRODUCT FAMILY	TOTAL POWER	SOCKET HEAD POWER	FUSE-BOX POWER	SOCKET ON/OFF	IP	MOD BUS
NTPDUAI91	✓		✓		✓	✓
NTPDUAI92	✓		✓	✓	✓	✓
NTPDUAI93	✓	✓	✓		✓	✓
NTPDUAI94	✓	✓	✓	✓	✓	✓