

STRUCTURED CABLING SOLUTIONS

CATALOG



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NETVIEL®



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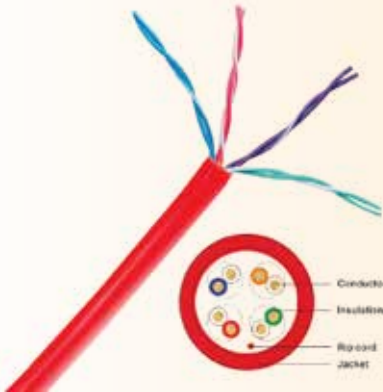
NETVIEL TWISTED PAIRS COPPER INFRASTRUCTURE CABLING SOLUTIONS DELIVERS HIGH INSTALLED PERFORMANCES AND FLEXIBILITY IN ANY ENVIRONMENTS. OUR PRODUCTS ARE DESIGNED TO PERFORM FLAWLESSLY EXCEEDING INTERNATIONAL TELECOMMUNICATION STANDARDS REQUIREMENTS.



The performance of a network cabling system not only depends on the quality of the products it self but highly depends on the installation as well. At NETVIEL, we do have a certification program for installer (NETVIEL CERTIFIED ENGINEER). This program train and build the installer's knowledge technically and practically not just all of our products and on how to test-method, but to educate about the international telecommunication standard. NETVIEL's Products offers full end-to-end solutions for varieties need from governments, hospitals, hotels, airports, data center, education, factories, offices and residentials.

CAT5E PVC

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Products Description

-Electrical Performance(At 100MHz)

1.0-100.0MHz Impedance(ohms)	100±15
1.0-100.0MHz Impedance delay screw(ns/100m)	<45
Pair to Ground Capacitance Unbalance (PF/100m)	330Max
Conductor DC resistance 20%(ohms/km)	<93.8
Resistance Unbalance(%)	5
Test object	jacket
Test Material	PVC
Before Tensile strength(Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging condition(C xhrs)	100x240
After Tensile strength(Mpa)	≥85% of unaged
Aging Elongation(%)	≥50% of nagged
Cold bend(-20±2°Cx24 hrs)	No crack

-Application

This 4-pair Category 5e cable is tested for power Sum NEXT,ELFEXT,Delay Skew,Propagation Delay and any other criteria as specified in the emerging standart,Applications can include Voice,ISDN,ATM 155 and 622Mbps,100Mbps TPDDI,Fast and Gigabit Ethernet,Shielding protects against EMI/RFI interference

Cable Data

Conductor	solid bare copper
AWG	24
Conductor Dia(mm)	0.51
Insulation	PE
Average thickness(±0.03mm)	0.20
Min point thickness:	0.17
Insulation Dia(±0.03mm)	0.91
Twisting lay length(mm)	30 undemeath
Cabling lay length (mm)	200 undemeath
Jacket	PVC
Average thickness	0.5
Min point thickness	0.43
Outer Diameter (± 1.0mm)	5.1
Rip cord	YES
Weight Nom(kg/km)	32
Core color:	Blue-white/blue Orange-white/orange Green-white/orange Brown-white/brown

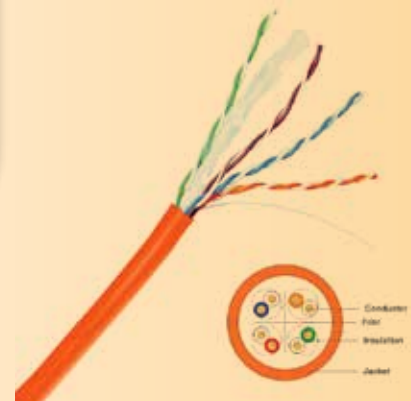
Standard Compliance

All Proposed Category 6 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards, ANSI/TIA/EIA 568-B.2-1 CAT.6 ISO/IEC 11801 CLASS E.2nd Edition IEC 61156-6 CENELEC EN 50173-1 CENELEC EN 50288-5-1, CENELEC EN 50288-5-2 Flame Retardancy is verified According to IEC 60331-1-2

-Application

POTS.T1&T1 fractional,ISDN Basic&primary Rate.4/16 Mbps Token Ring(IEEE802.5).10BAST-T(IEEE 802.3),100Mbps TP-PMD.52/155Mbps ATM(ATM Forum), 100BAST-T4(fast Ethernet), 100 VG-AnyLAN (IEEE802.12),100 BAST-T(Fast Ethernet),1 Gbps Ethernet(IEEE 802.3)

CAT6 LSZH



Cable Data

Conductor	solid bare copper
AWG	23
Conductor Dia(mm)	0.57
Insulation	PE
Average thickness(±0.03mm)	0.22
Min point thickness:	0.18
Insulation Dia(±0.03mm)	1.02
Twisting lay length(mm)	30 undemeath
Cabling lay length (mm)	200 undemeath
Jacket	LSZH/LSOH
Average thickness	0.5
Min point thickness	0.43
Outer Diameter (± 1.0mm)	6.0
Rip cord	YES
Weight Nom(kg/km)	42
Core color:	Blue-white/blue Orange-white/orange Green-white/orange Brown-white/brown

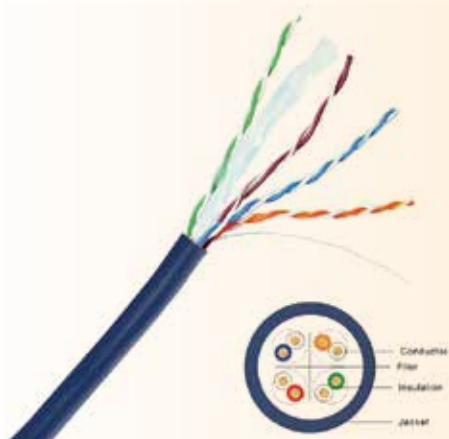
Products Description

-Electrical Performance

1.0-100.0 MHz Impedance(ohms)	100±15
100.0-250.0 MHz Impedance(ohms)	100±22
Impedance Delay screw(ns/100m)	<45
Pair to Ground Capacitance Unbalance(PF/100m)	330Max
Conductor DC resistance 20%(ohms/km)	<73.2
Resistance Unbalance(%)	5
Test object	jacket
Test Material	PVC
Before Tensile strength(Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging condition(C xhrs)	100x240
After Tensile strength(Mpa)	≥85% of unaged
Aging Elongation(%)	≥50% of nagged
Cold bend(-20±2°Cx24 hrs)	No crack

CAT6 PVC

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Products Description

-Electrical Performance

1.0-100.0 MHz Impedance(ohms)	100±15
100.0-250.0 MHz Impedance(ohms)	100±22
Impedance Delay screw(ns/100m)	<45
Pair to Ground Capacitance Unbalance(PF/100m)	330Max
Conductor DC resistance 20%(ohms/km)	<73.2
Resistance Unbalance(%)	5
Test object	jacket
Test Material	PVC
Before Tensile strength(Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging condition(C xhrs)	100x240
After Tensile strength(Mpa)	≥85% of unaged
Aging Elongation(%)	≥50% of naged
Cold bend(-20±2°Cx24 hrs)	No crack

-Application

POTS.T1&T1 fractional,ISDN
Basic&primary Rate.4/16 Mbps Token
Ring(IEEE802.5).10BAST-T(IEEE
802.3),100Mbps TP-PMD.52/155Mbps
ATM(ATM Forum), 100BAST-T4(fast
Ethernet), 100 VG-AnyLAN
(IEEE802.12),100 BAST-T(Fast
Ethernet),1 Gbps Ethernet(IEEE 802.3)

Cable Data

Conductor	solid bare copper
AWG	23
Conductor Dia(mm)	0.57
Insulation	PE
Average thickness(±0.03mm)	0.22
Min point thickness:	0.18
Insulation Dia(±0.03mm)	1.02
Twisting lay length(mm)	30 underneath
Cabling lay length (mm)	200 underneath
Jacket	PVC
Average thickness	0.5
Min point thickness	0.43
Outer Diameter (± 1.0mm)	6.0
Rip cord	YES
Weight Nom(kg/km)	42
Core color:	Blue-white/blue Orange-white/orange Green-white/orange Brown-white/brown

-Electrical Performance

Spark Test	1050 V (AC)
Dielectric Strength	2500 V dc/3 seconds
Insulation Resistance	Min. 150 MO/Km
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 330 pF/100m
Mutual Capacitance	Max. 5600 pF/100m
Impedance	64kHz 1250±20% 1~250MHz 1000±15%

Cable Data

Conductor	Bare copper
AWG	23
Conductor Diameter (mm)	0.56 ± 0.02
Insulation	Foam-skin PE
Average thickness	0.414 mm Min at any point:0.364
Jacket	PVC or LSZH
Average thickness	0.54mm
Min point thickness	0.4mm
Outer Dia	7.2±0.3mm
Elongation	Min.100%/min125%
Tensile strength	Min.1.407kg/mm2/ Min.0.917kg/mm2
Aging at 100°C for 168Hrs	Min.elongation retention:50% Min.tensile strength retention:75%
Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown

*optional for LSZH jacketing material by special request

CAT6 SFTP PVC



Products Description

-Application

Voice, T1, ISDN
10BASE-T, 100BASE-T Fast Ethernet
(IEEE 802.3),
100VG-anyLAN (IEEE802.12).
155/622 Mbps ATM
550 MHz Broadband Vedio
1000BASE-T Gigabit Ethernet

PATCH CORDS CAT5E

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Products Description

-Features

- Exceeds TIA/EIA-568-B-2 Cat5e requirements and meets Class D standards
- 24AWG Unshielded stranded cable
- Plastic injected plastic boot RJ45 type of connector
- Red Color Jacket with PVC material

-Application

- Structured premises cabling for usage in transmitting voice, video and data signals
- 10BaseT /100BaseTX Fast Ethernet
- Token Ring
- ISDN
- VoIP
- Analog and digital

PATCH CORDS CAT6

Products Description

-Features

- Exceeds TIA/EIA-568-B-2.1 Cat6 requirements and meets Class E standards
- 24AWG Unshielded stranded cable
- Plastic injected plastic boot RJ45 type of connector
- Navy Blue Color Jacket with PVC material
- LSZH jacket material available in Orange color



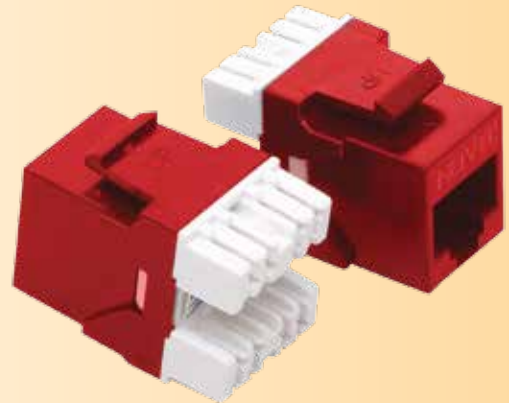
-Application

- Structured premises cabling for usage in transmitting voice, video and data signals
- 10BaseT /100BaseTX Fast Ethernet
- 1000BaseTX Gigabit Ethernet
- Token Ring
- ISDN
- VoIP
- Analog and digital

KEYSTONE CAT5E

Products Description -Features

- Exceeds TIA/EIA-568-B-2 Cat5e requirements and meets Class D standards
- Pure copper pins
- Re-terminated 20 times
- Available only in red Color to match the NETVIEL® Cat5e UTP cable
- Terminates 4 pairs, solid or stranded twisted pair cable
- Accepts two wiring scheme standard (T568A and / or T568B)
- Requires punch tools for termination
- High Density ABS Injected plastic material



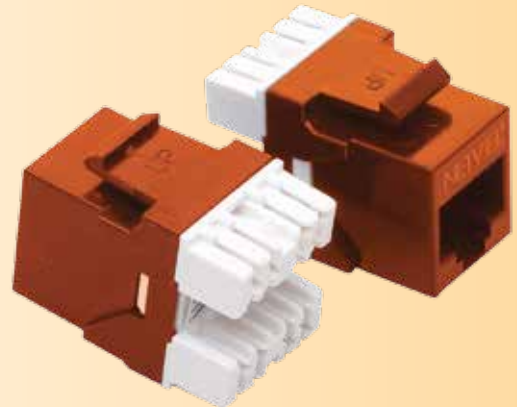
-Application

- Can be installed in the NETVIEL® Single or twin port faceplates and in the NETVIEL® discrete unloaded patch panel
- Token Ring
- ISDN
- VoIP
- 10BaseT /100BaseTX Fast Ethernet

KEYSTONE CAT6

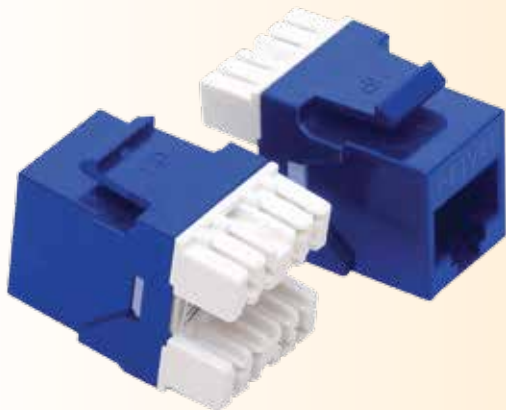
Products Description -Features

- Exceeds TIA/EIA-568-B-2.1 Cat6 requirements and meets Class E standards
- Pure copper pins
- Re-terminated 20 times
- Available in Navy Blue and Orange Color to match the NETVIEL® Cat6 UTP cable (PVC and LSZH)
- Terminates 4 pairs, solid or stranded twisted pair cable
- Accepts two wiring scheme standard (T568A and / or T568B)
- Requires punch tools for termination
- High Density ABS Injected plastic material



-Application

- Can be installed in the NETVIEL® Single or twin port faceplates and in the NETVIEL® discrete unloaded patch panel
- Token Ring
- ISDN
- VoIP
- 10BaseT /100BaseTX Fast Ethernet
- 1000BaseTx Gigabit Ethernet



HORIZONTAL CABLE MANAGEMENT

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Products Description

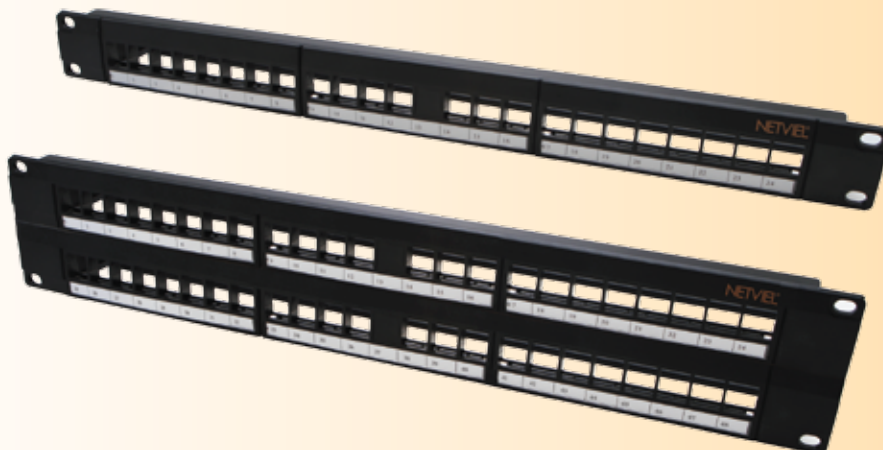
-Features

- 19" 1U cabling management
- Available only in black color
- Front cover can be opened from the top or bottom and flexible fingers allows easy installation and removal
- High Density ABS Injected plastic material
- Rounded edges on fingers to avoid the damage to the cables
- Pass through holes allow cables to go to rear
- Light weight

-Application

- Can be installed in any standard 19" racking system

HORIZONTAL DISCRETE PATCH PANEL UNLOADED



Products Description

-Features

- 19" 1U and 2U Discrete Patch Panel, Unloaded
- Available only in black color
- Available in 24ports (1U) and 48ports (2U)
- Accepts any types of NETVIEL® Cat5e and / or Cat6 Keystone
- High Density ABS Injected plastic material with steel panel frame powder coated
- Label identification provided
- Rear cable management steel bar provided

-Application

- Can be installed in any standard 19" racking system



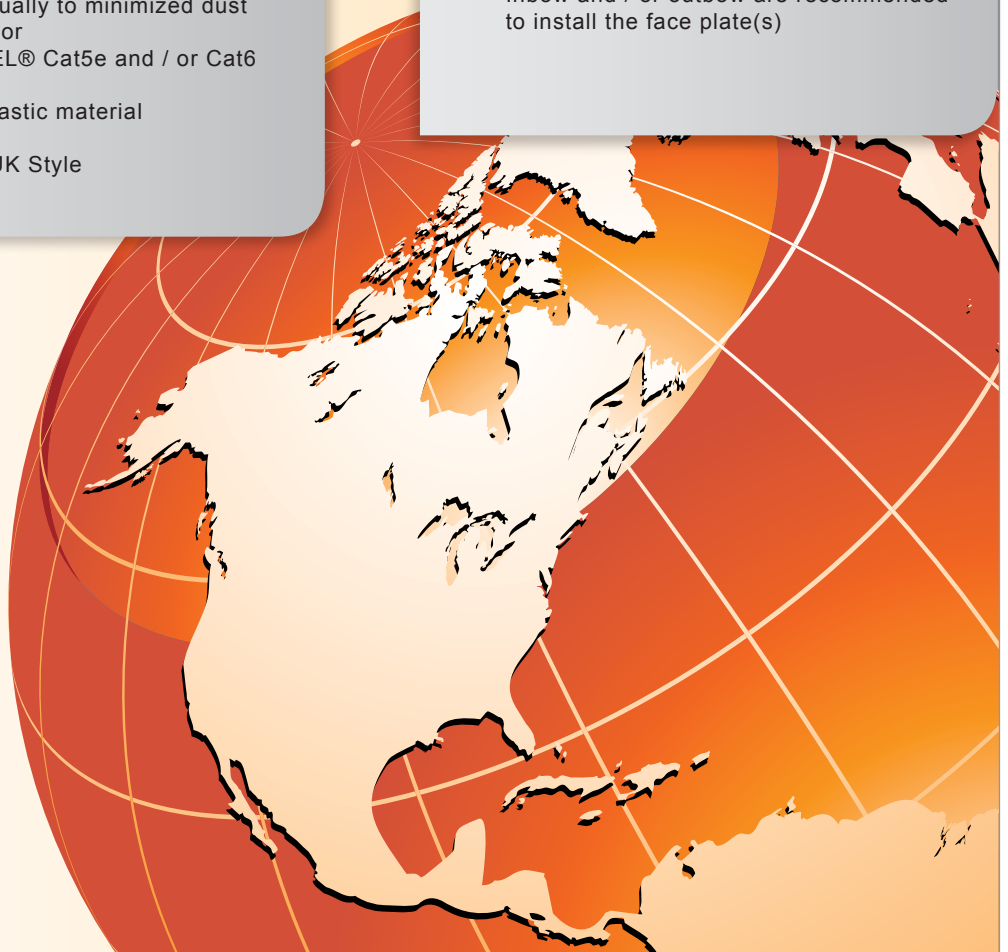
Products Description

-Features

- Available in 1 port and 2 ports, Unloaded
- Comes with shuttered individually to minimized dust
- Available only in off white color
- Accepts any types of NETVIEL® Cat5e and / or Cat6 Keystone
- High Density ABS Injected plastic material
- Label identification provided
- Flat Screw on Square type, UK Style
- Mounting screws supplied

-Application

- On the work area outlets
- Inbow and / or outbow are recommended to install the face plate(s)







A conceptual image featuring a hand pointing towards a world map. The map is overlaid with a network of white lines and square nodes, suggesting global connectivity. The word "NETVIEL" is prominently displayed in the center in a bold, orange-to-yellow gradient font, with a registered trademark symbol (®) to its right. The background is a blurred image of a person in a blue shirt and tie, with a blue and white dotted pattern on the right side.

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NETVIEL'S CERTIFICATE OF REGISTRATION

All NETVIEL Copper Structured Cabling System products have a 25 Years Limited Warranty Performance. We are confident that your NETVIEL Copper Structured Cabling system will keep performing to the current Telecommunication's industry standards. The guarantee will be qualify when meet per following :

- Meet all TIA / EIA or ISO/IEC Standards
- All products should be NETVIEL end-to-end solution
- All products should be supplied & installed by NETVIEL Certified System Installer/ Engineer
- All installations should be supervised and installed by NETVIEL Certified Engineer (NCE)

If any NETVIEL products fails to performs as stated above, NETVIEL will provide new components for free.*

NETVIEL'S AUTHORIZED PARTNER :



* No services will be replace, except components only