

NITROTEL MANUFACTURING CORP
Tel: 786.409.3741
E-mail: sales@nitrotelmanufacturing.com
www.nitrotelmanufacturing.com



PRODUCT INFORMATION

www.nitrotelmanufacturing.com



PRODUCT INFORMATION

WORLD OF STRUCTURED CABLING SOLUTIONS



LAN CABLE
& PATCH CABLE

FACE PLATE

MODULES

PATCH PANELS

OPTICAL FIBER
& XPON

CABINETS

Global leading manufacturer
of structured cabling
and consumer electronics



QUALITY IS THE BACKBONE OF OUR BUSINESS

Aiming at becoming a global leading solution provider of smart city,
intelligent building and smart home.

GROUP INTRODUCTION



Located in Miami, U.S.A., Nitrotel is an investment holding company which is based on two core industries of structured cabling and consumer electronics. Established in 1993 and with development in business model innovation, management innovation, technology innovation for over 20 years, Ship Group has become an international group corporation. With the corporate spirit of “Faith, Devotion and Pragmatic”, the company has been selected as one of Region Top 100 Enterprises.

Nitrotel With four steps of capital accumulation, brand establishment, industry promotion and global operations, has become the industrial and operational group corporation based on structured cabling and consumer electronics, covering the whole value-chain of R & D, manufacture and brand sales. In 2012, in sales.

Electronic Science & Technology Co. Ltd., one affiliate of Nitrote , is a national high-tech enterprise. With the development over 20 years, it has formed a complete vertical industrial chain of structured cabling, including over 10 subsidiaries in R&D, manufacture and sale. It has been a global solution provider of structured cabling, and its domestic market share has been in the front rank for many years. Also, this affiliate of Nitrotel has

established production bases and logistics centers in many cities at home and abroad. Its products are exported to over 100 countries and regions, and its strategic partners are more than a dozen global leading electronics companies. Electronic Science & Technology Co. Ltd. has over 300 professional technicians, dozens of production lines of data cables, optical fiber cables, network patch cords, precise cabinets, communication equipments, security cables and new plastic materials. Its provincial high-tech R & D center is mature with abundant engineers, research and testing equipments, providing high quality technical services and new pro-duct development security for customers. The center is able to bear entire tasks of R & D projects with the wide trial site. Electronic Science & Technology Co. Ltd. has obtained many certificates such as ISO9001: 2000, ISO14001, CCC, TLC, UL, ETL and CE, and introduced large DCM detector, network analyzer, fluke detector, time domain reflector, HDMI tester and etc., which provide the reliable security of product quality for our clients.

PRODUCT CERTIFICATES





Company plant



R & D Center



office



dining hall



workshop



workshop



workshop



workshop



workshop



workshop

FOR MORE INFORMATION, PLEASE VISIT OUR WEBSITE
www.nitrotelmanufacturing.com

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STRUCTURED CABLING LAN CABLE & PATCH CORD

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PRODUCT CERTIFICATES



STRUCTURED CABLING

LAN CABLE

S/FTP Shielded CAT 7A Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class FA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T. (IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5).

Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms).
 100 - 200MHz 100±22 (ohms).
 200 - 1000MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.4(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance:330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Coupling Attenuation: Min 80 dB.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

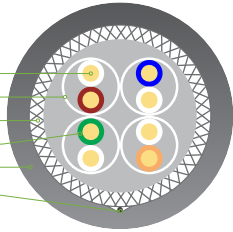
Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ELNEXT (min)	PSELNEXT (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
4	23.0	3.7	552	25	78.0	75.0	78.0	75.0
8	24.5	5.2	547	25	78.0	75.0	77.2	74.2
10	25.0	5.8	545	25	78.0	75.0	75.3	72.3
16	25.0	7.3	543	25	78.0	75.0	71.2	68.2
20	25.0	8.2	542	25	78.0	75.0	69.3	66.3
25	24.3	9.2	541	25	78.0	75.0	67.3	64.3
31.25	23.6	10.3	540	25	78.0	75.0	65.4	62.4
62.5	21.5	14.6	539	25	75.5	72.5	59.4	56.4
100	20.1	18.5	538	25	72.4	69.4	55.3	52.3
200	18.0	26.5	537	25	67.9	64.9	49.3	46.3
250	17.3	29.7	536	25	66.4	63.4	47.3	44.3
300	17.3	32.7	536	25	65.2	62.2	45.8	42.8
400	17.3	38.0	536	25	63.4	60.4	43.3	40.3
500	17.3	42.8	536	25	61.9	58.9	41.3	38.3
600	17.3	47.1	535	25	60.7	57.7	39.7	36.7
700	na	51.1	535	25	59.7	56.7	na	na
800	na	54.9	535	25	58.9	55.9	na	na
900	na	58.5	535	25	58.1	55.1	na	na
1000	na	61.9	535	25	57.4	54.4	na	na

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Conductor

Conductor
Al-mylar Foil
Braid
Insulation(skin-foam-skin)
Jacket
Rip Cord



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-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

Order information (Part Number)

NTNC7A SFTP-

Jacket Color	Item	Outer Jacket	Overall diameter(mm)
BU RD	P	CMP	8.3±0.3
GY BK	C	CM	8.3±0.3
WH YL	Blank	CMR	8.3±0.3
GN PR	L	LSZH	8.3±0.3
	E	LDPE	8.3±0.3

Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.3±0.3
C	CM	8.3±0.3
Blank	CMR	8.3±0.3
L	LSZH	8.3±0.3
E	LDPE	8.3±0.3

STRUCTURED CABLING

LAN CABLE

S/FTP Shielded CAT 7 Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class F applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T. (IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5).

Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms).
 100 - 200MHz 100±22 (ohms).
 200 - 600MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.4(ohms/100m).
- Resistance unbalance (%): max 2.5.
- Pair-to-Ground Capacitance Unbalance: 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Coupling Attenuation: Min 80 dB.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

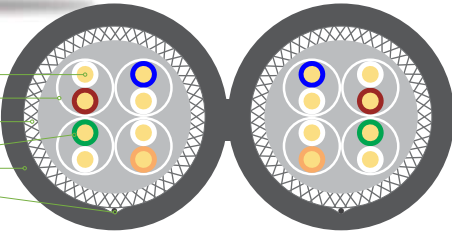
Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ELNEXT (min)	PSELNEXT (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
4	23.0	3.7	552	25	78.0	75.0	78.0	75.0
8	24.5	5.2	547	25	78.0	75.0	77.2	74.2
10	25.0	5.9	545	25	78.0	75.0	75.3	72.3
16	25.0	7.4	543	25	78.0	75.0	71.2	68.2
20	25.0	8.3	542	25	78.0	75.0	69.3	66.3
25	24.3	9.3	541	25	78.0	75.0	67.3	64.3
31.25	23.6	10.4	540	25	78.0	75.0	65.4	62.4
62.5	21.5	14.9	539	25	75.5	72.5	59.4	56.4
100	20.1	19.0	538	25	72.4	69.4	55.3	52.3
200	18.0	27.5	537	25	67.9	64.9	49.3	46.3
250	17.3	31.0	536	25	66.4	63.4	47.3	44.3
300	17.3	34.2	536	25	65.2	62.2	45.8	42.8
400	17.3	40.0	536	25	63.4	60.4	43.3	40.3
500	17.3	45.3	536	25	61.9	58.9	41.3	38.3
600	17.3	50.1	535	25	60.7	57.7	39.7	36.7

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Conductor

Conductor
Al-mylar Foil
Braid
Insulation(skin-foam-skin)
Jacket
Rip Cord



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-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

Order information (Part Number)

NTNC7 SFTP2-

Jacket Color	Item	Outer Jacket	Overall diameter(mm)
BU RD	P	CMP	(8.5+8.5)±0.3
GY BK	C	CM	(8.5+8.5)±0.3
WH YL	Blank	CMR	(8.5+8.5)±0.3
GN PR	L	LSZH	(8.5+8.5)±0.3
	E	LDPE	(8.5+8.5)±0.3

Item	Outer Jacket	Overall diameter(mm)
P	CMP	(8.5+8.5)±0.3
C	CM	(8.5+8.5)±0.3
Blank	CMR	(8.5+8.5)±0.3
L	LSZH	(8.5+8.5)±0.3
E	LDPE	(8.5+8.5)±0.3

STRUCTURED CABLING

LAN CABLE

S/FTP Shielded CAT 7 Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class F applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T. (IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5).

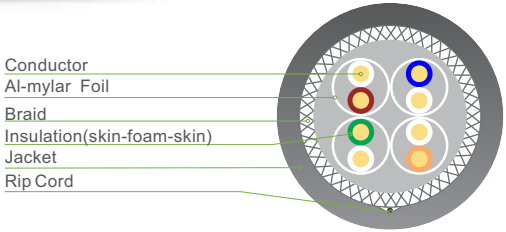
Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms).
100 - 200MHz 100±22 (ohms).
200 - 600MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.4(ohms/100m).
- Resistance unbalance (%): max 2.5.
- Pair-to-Ground Capacitance Unbalance: 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Coupling Attenuation: Min 80 dB.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ELNEXT (min)	PSELNEXT (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
4	23.0	3.7	552	25	78.0	75.0	78.0	75.0
8	24.5	5.2	547	25	78.0	75.0	77.2	74.2
10	25.0	5.9	545	25	78.0	75.0	75.3	72.3
16	25.0	7.4	543	25	78.0	75.0	71.2	68.2
20	25.0	8.3	542	25	78.0	75.0	69.3	66.3
25	24.3	9.3	541	25	78.0	75.0	67.3	64.3
31.25	23.6	10.4	540	25	78.0	75.0	65.4	62.4
62.5	21.5	14.9	539	25	75.5	72.5	59.4	56.4
100	20.1	19.0	538	25	72.4	69.4	55.3	52.3
200	18.0	27.5	537	25	67.9	64.9	49.3	46.3
250	17.3	31.0	536	25	66.4	63.4	47.3	44.3
300	17.3	34.2	536	25	65.2	62.2	45.8	42.8
400	17.3	40.0	536	25	63.4	60.4	43.3	40.3
500	17.3	45.3	536	25	61.9	58.9	41.3	38.3
600	17.3	50.1	535	25	60.7	57.7	39.7	36.7

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-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

Order information (Part Number)

NTNC7 SFTP-		
Jacket Color		
BU	RD	
GY	BK	
WH	YL	
GN	PR	
Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.3±0.3
C	CM	8.3±0.3
Blank	CMR	8.3±0.3
L	LSZH	8.3±0.3
E	LDPE	8.3±0.3

STRUCTURED CABLING

LAN CABLE

S/FTP Shielded EngineerPro® CAT 6A Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ANSI/TIA568.2-D
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T. (IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5).
- UL Verified

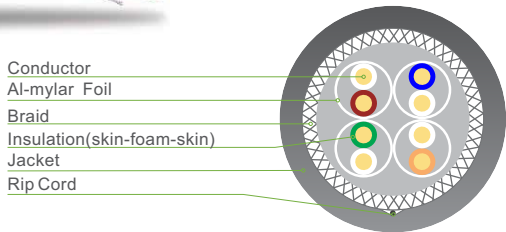
Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms) .
100 - 200MHz 100±22 (ohms).
200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.7(ohms/100m).
- Resistance unbalance (%): max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Coupling Attenuation: Min 80 dB.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8
10	25.0	5.9	545	45	59.3	57.3	47.8	44.7
16	25.0	7.5	543	45	56.2	54.2	43.7	40.7
20	25.0	8.4	542	45	54.8	52.8	41.8	38.8
31.25	23.6	10.5	540	45	51.9	49.9	37.9	34.9
62.5	21.5	15.0	539	45	47.4	45.4	31.9	28.9
100	20.1	19.1	538	45	44.3	42.3	27.8	24.8
200	18.0	27.6	537	45	39.8	37.8	21.8	18.8
300	17.3	34.3	536	45	37.1	35.1	18.3	15.3
400	17.3	40.1	536	45	35.3	33.3	15.8	12.8
500	17.3	45.3	536	45	33.8	31.8	13.8	10.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-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

Order information (Part Number)

NTNC6A SFTP-		
Jacket Color		
BU	RD	
GY	BK	
WH	YL	
GN	PR	
Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.3±0.3
C	CM	8.3±0.3
Blank	CMR	8.3±0.3
L	LSZH	8.3±0.3
E	LDPE	8.3±0.3

STRUCTURED CABLING

LAN CABLE

F/FTP Shielded EngineerPro® CAT6A Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ANSI/TIA568.2-D
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s.(IEEE 802.5).
- UL Verified.

Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms) .
 100 - 200MHz 100±22 (ohms).
 200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.7(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

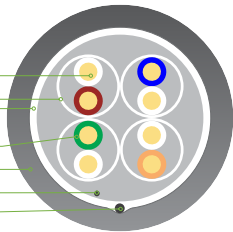
Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8
10	25.0	5.9	545	45	59.3	57.3	47.8	44.8
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20	25.0	8.4	542	45	54.8	52.8	41.8	38.8
31.25	23.6	10.5	540	45	51.9	49.9	37.9	34.9
62.5	21.5	15.0	539	45	47.4	45.4	31.9	28.9
100	20.1	19.1	538	45	44.3	42.3	27.8	24.8
200	18.0	27.6	537	45	39.8	37.8	21.8	18.8
300	17.3	34.3	536	45	37.1	35.1	18.3	15.3
400	17.3	40.1	536	45	35.3	33.3	15.8	12.8
500	17.3	45.3	536	45	33.8	31.8	13.8	10.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Conductor
Al-mylar Foil

Insulation(skin-foam-skin)
Jacket
Drain Wire
Rip Cord



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-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	Tinned copper

Order information (Part Number)

NTNC6A FFTP-



Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.3±0.3
C	CM	8.3±0.3
Blank	CMR	8.3±0.3
L	LSZH	8.3±0.3
E	LDPE	8.3±0.3

STRUCTURED CABLING

LAN CABLE

U/FTP Shielded EngineerPro® CAT6A Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ANSI/TIA568.2-D
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5).
- UL Verified.

Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms) .
 100 - 200MHz 100±22 (ohms).
 200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.7(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

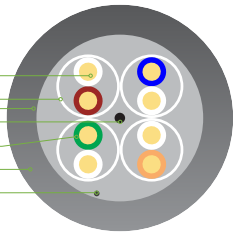
Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8
10	25.0	5.9	545	45	59.3	57.3	47.8	44.8
16	25.0	7.5	543	45	56.2	54.2	43.7	40.7
20	25.0	8.4	542	45	54.8	52.8	41.8	38.8
31.25	23.6	10.5	540	45	51.9	49.9	37.9	34.9
62.5	21.5	15.0	539	45	47.4	45.4	31.9	28.9
100	20.1	19.1	538	45	44.3	42.3	27.8	24.8
200	18.0	27.6	537	45	39.8	37.8	21.8	18.8
300	17.3	34.3	536	45	37.1	35.1	18.3	15.3
400	17.3	40.1	536	45	35.3	33.3	15.8	12.8
500	17.3	45.3	536	45	33.8	31.8	13.8	10.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Conductor
Al-mylar Foil
Drain Wire

Insulation(skin-foam-skin)
Jacket
Rip Cord



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-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	0.40±0.005mm TC
Drain wire	None

Order information (Part Number)

NTNC6A UFTP-



Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.3±0.3
C	CM	8.3±0.3
Blank	CMR	8.3±0.3
L	LSZH	8.3±0.3
E	LDPE	8.3±0.3

STRUCTURED CABLING

LAN CABLE

F/UTP Shielded EngineerPro® CAT6A Twisted Pair Installation Cable



Standard

- IEC/ISO 61156-5
- ANSI/TIA568.2-D
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s.(IEEE 802.5).
- UL Verified.

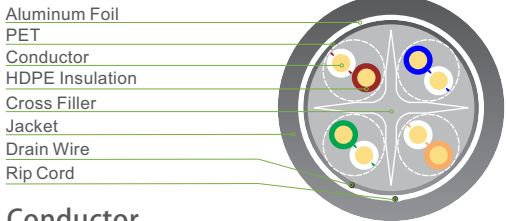
Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms) .
 100 - 200MHz 100±22 (ohms).
 200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C:8.4(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8
10	25.0	6.0	545.4	45	59.3	57.3	47.8	44.8
16	25.0	7.6	543	45	56.2	54.2	43.7	40.7
20	25.0	8.5	542.1	45	54.8	52.8	41.8	38.8
31.25	25.0	10.7	540.4	45	51.9	49.9	37.9	34.9
62.5	21.5	15.4	538.6	45	47.4	45.4	31.9	28.9
100	20.1	19.8	537.6	45	44.3	42.3	27.8	24.8
200	18.0	29.0	536.1	45	39.8	37.8	21.8	18.8
300	17.3	36.4	536.1	45	37.1	35.1	18.3	15.3
400	17.3	43.0	535.8	45	35.3	33.3	15.8	12.8
500	17.3	45.3	535.6	45	33.8	31.8	13.8	10.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



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

Order information (Part Number)

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
E	LDPE	7.6±0.2

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded EngineerPro® CAT6A Twisted Pair Installation Cable

Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 6 and ISO 11801 2nd Edition Class EA channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for 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 Verified.

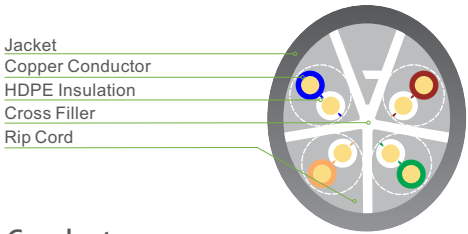
Electrical Characteristics

- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)	PS ANEXT (min)	PS AACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)	(dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8	67.0	67.0
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8	67.0	66.2
10	25.0	6.0	545.4	45	59.3	57.3	47.8	44.8	67.0	60.1
16	25.0	7.6	543	45	56.2	54.2	43.7	40.7	67.0	52.2
20	25.0	8.5	542.1	45	54.8	52.8	41.8	38.8	67.0	48.3
31.25	25.0	10.7	540.4	45	51.9	49.9	37.9	34.9	67.0	42.3
62.5	21.5	15.4	538.6	45	47.4	45.4	31.9	28.9	65.6	38.2
100	20.1	19.8	537.6	45	44.3	42.3	27.8	24.8	62.5	32.2
200	18.0	29.0	536.1	45	39.8	37.8	21.8	18.8	58.0	30.2
300	17.3	36.4	536.1	45	37.1	35.1	18.3	15.3	55.3	28.7
400	17.3	43.0	535.8	45	35.3	33.3	15.8	12.8	53.5	26.2
500	17.3	45.3	535.6	45	33.8	31.8	13.8	10.8	52.0	24.2

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare 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

Order information (Part Number)

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
Blank	CMR	7.5±0.2
L	LSZH	7.5±0.2
E	LDPE	7.5±0.2

STRUCTURED CABLING

LAN CABLE

F/UTP shielded EngineerPro® CAT6E Twisted Pair Cable



Application

- Exceeds ANSI/TIA-568.2-D and ISO 11801 2nd Edition Class E Category 6 channel standards.
- Exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards.
- Meets IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- UL Verified E477770.

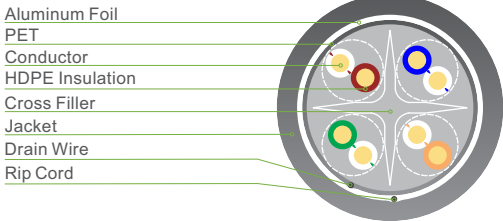
Electrical Characteristics

- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MHz)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2	570	45	74	72	67.8	64.8
4	23.0	3.8	552	45	65	63	55.7	52.7
10	25.0	6.0	545	45	59	57	47.8	44.8
16	25.0	7.6	543	45	56	54	43.7	40.7
20	25.0	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	19.8	537	45	44.3	42.3	27.8	24.8
200	18.0	29.0	536	45	39.7	37.7	21.7	18.7
250	17.3	32.8	535	45	38	36	19.8	16.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare 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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	Tinned copper

Order information (Part Number)

NTNC6E 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
E	LDPE	7.6±0.2

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded EngineerPro® CAT6E Twisted Pair Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 6 and ISO 11801 2nd Edition Class E channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for 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 Verified.

Electrical Characteristics

- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MHz)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2	570	45	74	72	67.8	64.8
4	23.0	3.8	552	45	65	63	55.7	52.7
10	25.0	6.0	545	45	59	57	47.8	44.8
16	25.0	7.6	543	45	56	54	43.7	40.7
20	25.0	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	19.8	537	45	44.3	42.3	27.8	24.8
200	18.0	29.0	536	45	39.7	37.7	21.7	18.7
250	17.3	32.8	535	45	38	36	19.8	16.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare 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

Order information (Part Number)

NTNC6E



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Jacket Color

BU	RD
GY	BK
WH	YL
GN	PR

Item	Outer Jacket	Overall diameter(mm)
P	CMP	6.4±0.2
C	CM	6.4±0.2
Blank	CMR	6.4±0.2
L	LSZH	6.4±0.2
E	LDPE	6.4±0.2

STRUCTURED CABLING

LAN CABLE

SF/UTP double fully shielded EngineerPro® CAT6E Twisted Pair Cable

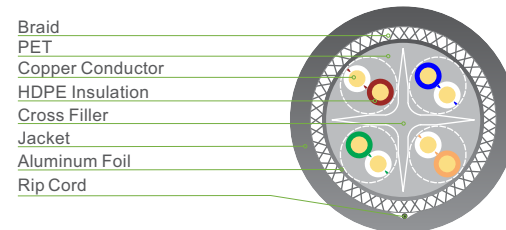


Application

- Exceeds ANSI/TIA-568.2-D and ISO 11801 2nd Edition Class E Category 6 channel standards.
- Exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards.
- Meets IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- UL Verified.

Electrical Characteristics

- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.



Conductor

Conductor	Solid Bare 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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

Order information (Part Number)

NTNC6E__SFTP-

Jacket Color

Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.1±0.2
C	CM	8.1±0.2
Blank	CMR	8.1±0.2
L	LSZH	8.1±0.2
E	LDPE	8.1±0.2

Nominal Transmission Characteristics

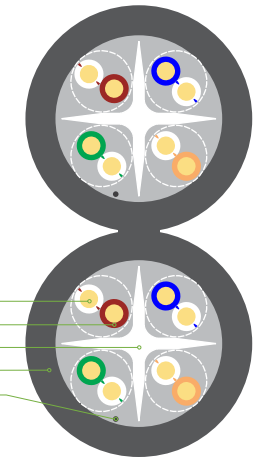
Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MHz)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20	2.2	590	62	74.3	72.3	67.8	64.8
4	23	4.1	572	62	65.2	63.2	55.7	52.7
10	25	6.5	565	62	59.3	57.3	47.8	44.8
16	25	8.2	563	62	56.2	54.2	43.7	40.7
20	25	9.3	562	62	54.7	52.7	41.7	38.7
31.25	23.6	11.5	560	62	51.8	49.8	37.9	34.9
62.5	21.5	16.2	558	62	47.3	45.3	31.8	28.8
100	20.1	20.4	557	62	44.3	42.3	27.8	24.8
200	18	29.2	556	62	39.7	37.7	21.7	18.7
250	17.3	33.8	555	62	38.3	36.3	19.8	16.8

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded CAT6E Twisted Pair Installation Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 6 and ISO 11801 2nd Edition Class E channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for 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 Verified.

Electrical Characteristics

- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ·Km.
- Dielectric strength: DC 2500V 2S.

Conductor
HDPE Insulation
Cross Filler
Jacket
Rip Cord

Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	HDPE
Total number of insulated conductors	2x8, twisted in 2x 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

Order information (Part Number)

NTNC6E 2 -

Jacket Color					
BU	RD		Item	Outer Jacket	Overall diameter(mm)
GY	BK		P	CMP	(6.6+6.6)+/-0.2
WH	YC		C	CM	(6.6+6.6)+/-0.2
GN	PR		Blank	CMR	(6.6+6.6)+/-0.2
			L	LSZH	(6.6+6.6)+/-0.2
			E	LDPE	(6.6+6.6)+/-0.2

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2	570	45	74	72	67.8	64.8
4	23.0	3.8	552	45	65	63	55.7	52.7
10	25.0	6.0	545	45	59	57	47.8	44.8
16	25.0	7.6	543	45	56	54	43.7	40.7
20	25.0	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	19.8	537	45	44.3	42.3	27.8	24.8
200	18.0	29.0	536	45	39.7	37.7	21.7	18.7

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded CAT5E Twisted Pair Installation Cable



Application

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

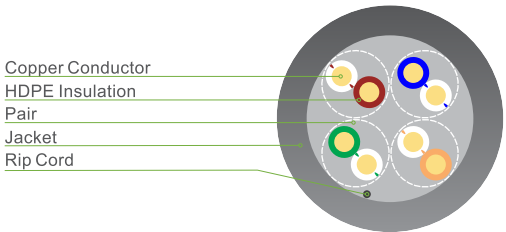
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 24AWG
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

Order information (Part Number)

NTNC5E -		
Jacket Color		
BU	RD	
GY	BK	
WH	YL	
GN	PR	
Item	Outer Jacket	Overall diameter(mm)
P	CMP	5.1±0.2
C	CM	5.1±0.2
Blank	CMR	5.1±0.2
L	LSZH	5.1±0.2
E	LDPE	5.1±0.2

STRUCTURED CABLING

LAN CABLE

F/UTP shielded CAT5E Twisted Pair Installation Cable



Application

- Exceeds ANSI/TIA-568.2-D and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- UL Verified.

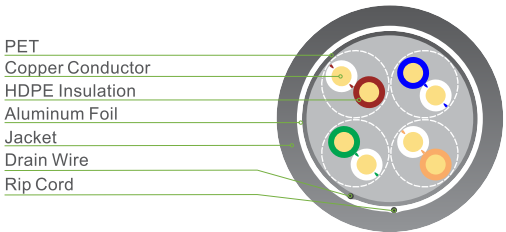
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 24AWG
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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

Order information (Part Number)

NTNC5E FTP-		
Jacket Color		
BU	RD	
GY	BK	
WH	YL	
GN	PR	
Item	Outer Jacket	Overall diameter(mm)
P	CMP	6.3±0.2
C	CM	6.3±0.2
Blank	CMR	6.3±0.2
L	LSZH	6.3±0.2
E	LDPE	6.3±0.2

STRUCTURED CABLING

LAN CABLE

SF/UTP double fully shielded CAT5E Twisted Pair Installation Cable



Application

- Exceeds ANSI/TIA-568.2-D and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- UL Verified.

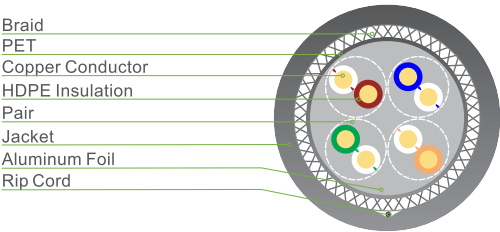
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MHz)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

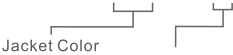


Conductor

Conductor	Solid Bare Copper 24AWG
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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

Order information (Part Number)

NTNC5E STP-



Item	Outer Jacket	Overall diameter(mm)
P	CMP	6.5±0.2
C	CM	6.5±0.2
Blank	CMR	6.5±0.2
L	LSZH	6.5±0.2
E	LDPE	6.5±0.2

STRUCTURED CABLING

LAN CABLE

U/UTP Direct Burial CAT5E Twisted Pair 350 MHz Cable Data Transmission and communication cable



Application

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

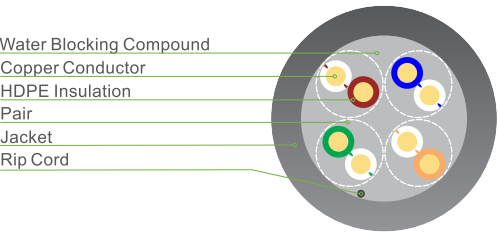
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MHz)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 24AWG
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

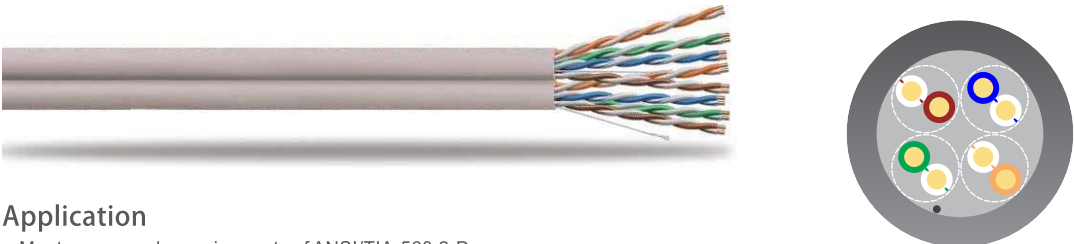
Order information (Part Number)

NTNC5EBK-DB

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded CAT5E Twisted Pair Installation Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products: CN200920124768. 4.
- UL Verified.

Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	61	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Copper Conductor
HDPE Insulation
Pair
Jacket
Rip Cord

Conductor

Conductor	Solid Bare Copper 24AWG
Insulation	HDPE
Total number of insulated conductors	2x8, twisted in 2x4 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

Order information (Part Number)

NTNC5E 2 -

Jacket Color	BU	RD
	GY	BK
	WH	YL
	GN	PR

Item	Outer Jacket	Overall diameter(mm)
P	CMP	(5.2+5.2)±0.3
C	CM	(5.2+5.2)±0.3
Blank	CMR	(5.2+5.2)±0.3
L	LSZH	(5.2+5.2)±0.3
E	LDPE	(5.2+5.2)±0.3

STRUCTURED CABLING

LAN CABLE

U/UTP steel wire support unshielded CAT5E Twisted Pair Installation Cable



Application

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

Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Copper Conductor
HDPE Insulation
Pair
Jacket
Rip Cord

Conductor

Conductor	Solid Bare Copper 24AWG
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

Order information (Part Number)

Item	Outer Jacket	Overall diameter(mm)
NTNC5EBK-F8	LDPE	(5.1+2.3)±0.3

STRUCTURED CABLING

LAN CABLE

F/UTP steel wire support shielded CAT5E Twisted Pair Installation Cable



Application

- Exceeds ANSI/TIA-568.2-D and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- UL Verified.

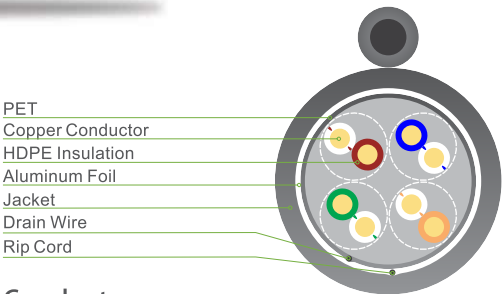
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 24AWG
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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

Order information (Part Number)

Item	Outer Jacket	Overall diameter(mm)
NTNC5EBKFTP-F8	LDPE	(6.3+2.3)±0.3

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded CAT5E Twisted 8 Pair Installation Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products: CN201020293718. 1.
- UL Verified.

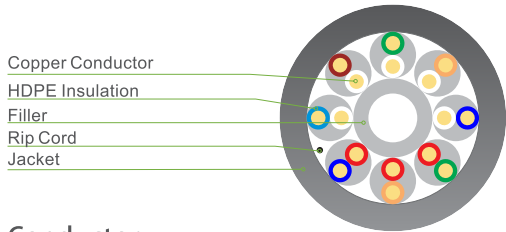
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MH)z	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.



Conductor

Conductor	Solid Bare Copper 24AWG
Insulation	HDPE
Total number of insulated conductors	16, twisted in 8 pairs
Color code	White/Blue, White/Orange, White/Green, White/Brown, White/Grey, Red/Blue, Red/Orange, Red/Green
Individual pair shield	None
Overall shield	None
Drain wire	None

Order information (Part Number)

NTNC5E_8PR -

Jacket Color



Item	Outer Jacket	Overall diameter(mm)
P	CMP	8.1±0.2
C	CM	8.1±0.2
Blank	CMR	8.1±0.2
L	LSZH	8.1±0.2
E	LDPE	8.1±0.2

STRUCTURED CABLING

LAN CABLE

U/UTP unshielded CAT3 Twisted 25/50/100 Pair Installation Cable



Application

- Exceeds requirements of ANSI/TIA-568.2-D Category 3 and ISO 11801 Class C channel standards.
- Exceeds the requirements of ANSI/TIA-568.2-D Category 3 component standards.
- Descending cable length markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products: CN200920124769.9.
- UL Verified.

Electrical Characteristics

- Impedance: 1-16MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 111(Ohms).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Order information (Part Number)

Jacket Color		PR -	
BU	RD	025	25 Pairs
GY	BK	050	50 Pairs
WH	YL	100	100 Pairs
GN	PR		

Item	Outer Jacket	Overall diameter(mm)
X	CMX	25P/12.5±1, 50P/17.2±1 100P/23.5±1
C	CM	25P/12.5±1, 50P/17.2±1 100P/23.5±1
Blank	CMR	25P/12.5±1, 50P/17.2±1 100P/23.5±1
L	LSZH	25P/12.5±1, 50P/17.2±1 100P/23.5±1
E	LDPE	25P/12.5±1, 50P/17.2±1 100P/23.5±1

U/UTP unshielded CAT5E Twisted 25/50/100 Pair Installation Cable



Application

- Exceeds requirements and ISO 11801 Class D channel standards.
- Exceeds the requirements and IEC 61156-5 Category 5 component standards.
- Descending cable length markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Packaged 305m (1,000 ft.) on a reel.
- Color Availability: Additional cable colors available.
- Patent products: CN200920124769. 9.
- UL Verified.

Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 111(Ohms).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Order information (Part Number)

Jacket Color		PR -	
BU	RD	025	25 Pairs
GY	BK	050	50 Pairs
WH	YL	100	100 Pairs
GN	PR		

Item	Outer Jacket	Overall diameter(mm)
X	CMX	25P/12.5±1, 50P/17.2±1 100P/23.5±1
C	CM	25P/12.5±1, 50P/17.2±1 100P/23.5±1
Blank	CMR	25P/12.5±1, 50P/17.2±1 100P/23.5±1
L	LSZH	25P/12.5±1, 50P/17.2±1 100P/23.5±1
E	LDPE	25P/12.5±1, 50P/17.2±1 100P/23.5±1

Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
Tensile Strength≥13. 5Mpa
Elongation ≥150%.
- Jacket After Aging
Tensile Strength ≥12. 5Mpa
Elongation ≥125%.

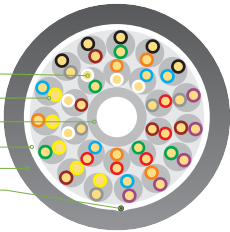
STRUCTURED CABLING

LAN CABLE

U/UTP unshielded CAT5E Twisted 25 Pair Installation Cable



Copper Conductor
HDPE Insulation
Filler
PET
Jacket
Rip Cord



Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 111(Ohms).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
Tensile Strength≥13. 5Mpa
Elongation ≥150%.
- Jacket After Aging
Tensile Strength ≥12. 5Mpa
Elongation ≥125%.

Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products: CN201020093721. 3.
- UL Verified.

Order information (Part Number)

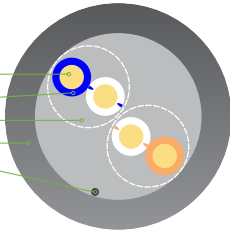
Jacket Color		PR -	
BU	RD	025	25 Pairs
GY	BK	050	50 Pairs
WH	YL	100	100 Pairs
GN	PR		

Item	Outer Jacket	Overall diameter(mm)
P	CMP	12.5±1.0
L	LSZH	12.5±1.0
E	LDPE	12.5±1.0

U/UTP unshielded CAT3 Twisted 2 Pair Installation Cable



Copper Conductor
HDPE Insulation
Pair
Jacket
Rip Cord



Electrical Characteristics

- Impedance: 1-16MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 111(Ohms).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
Tensile Strength≥13. 5Mpa
Elongation ≥150%.
- Jacket After Aging
Tensile Strength ≥12. 5Mpa
Elongation ≥125%.

Conductor

Conductor	Solid Bare Copper 24AWG
Insulation	HDPE
Total number of insulated conductors	4, twisted in 2 pairs
Color code	White-Blue/Blue, White-Orange/Orange
Individual pair shield	None
Overall shield	None
Drain wire	None

Order information (Part Number)

Item	Outer Jacket	Overall diameter(mm)
NTNC3_2PR-P	CMP	4.3±0.2

Jacket Color		PR -	
BU	RD	GY	BK
WH	YL	GN	PR

STRUCTURED CABLING

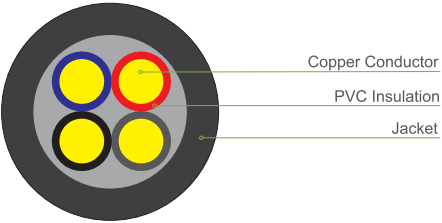
ALARM CABLE

Introduction

These cables are designed for installation in signaling and alarm systems. They allow the connector of contacts, detectors and sensors, infra-red as well as microwave of mixed technology systems to the switchboard.

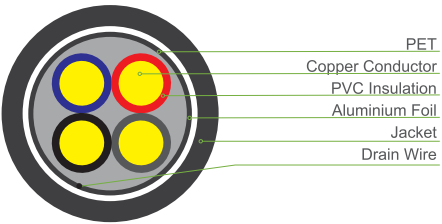
Product Description

Single shielded: AL/polyester foil, coverage>100%. Double fully shielded: AL/polyester foil & tinned copper braid



Structure Of Unshielded 0.22mm² Soft Alarm Cable

Section	Specification	Overall Diameter (mm)
2*0.22mm ²	2*7/0.20	3
4*0.22mm ²	4*1/0.20	3.5
6*0.22mm ²	6*1/0.20	4.1
8*0.22mm ²	8*1/0.20	4.5
10*0.22mm ²	10*1/0.20	5.2
12*0.22mm ²	12*1/0.20	5.4
14*0.22mm ²	14*1/0.20	5.8
20*0.22mm ²	20*1/0.20	6.8
2*0.5mm ² + 2*0.22mm ²	2*16/0.20+2*7/0.20	3.9
2*0.5mm ² + 4*0.22mm ²	2*16/0.20+4*7/0.20	4.5
2*0.5mm ² + 6*0.22mm ²	2*16/0.20+6*7/0.20	4.9
2*0.5mm ² + 8*0.22mm ²	2*16/0.20+8*7/0.20	5.7
2*0.75mm ² + 2*0.22mm ²	2*24/0.20+2*7/0.20	4.2
2*0.75mm ² + 4*0.22mm ²	2*24/0.20+4*7/0.20	4.9



Structure Of Shielded 0.22mm² Soft Alarm Cable

Section	Specification	Overall Diameter (mm)
2*0.22mm ²	2*7/0.20	3
4*0.22mm ²	4*1/0.20	3.5
6*0.22mm ²	6*1/0.20	4.1
8*0.22mm ²	8*1/0.20	4.5
10*0.22mm ²	10*1/0.20	5.2
12*0.22mm ²	12*1/0.20	5.4
14*0.22mm ²	14*1/0.20	5.8
20*0.22mm ²	20*1/0.20	6.8
2*0.5mm ² + 2*0.22mm ²	2*16/0.20+2*7/0.20	3.9
2*0.5mm ² + 4*0.22mm ²	2*16/0.20+4*7/0.20	4.5
2*0.5mm ² + 6*0.22mm ²	2*16/0.20+6*7/0.20	4.9
2*0.5mm ² + 8*0.22mm ²	2*16/0.20+8*7/0.20	5.7
2*0.75mm ² + 2*0.22mm ²	2*24/0.20+2*7/0.20	4.2
2*0.75mm ² + 4*0.22mm ²	2*24/0.20+4*7/0.20	4.9

STRUCTURED CABLING

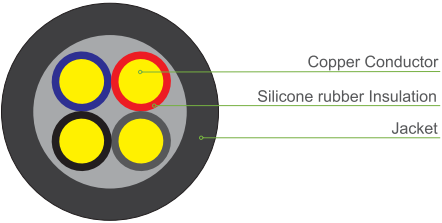
ALARM CABLE

Applications

These cables is mainly used for building fire alarm system connect, fire alarm equipment, high temperature, smoke detection.

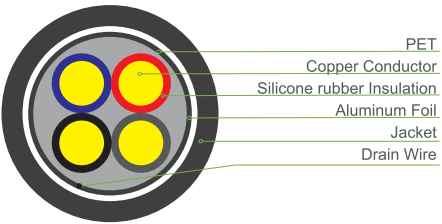
Product Description

Conductor for copper wire, tin copper wire, Silicone rubber insulation, color separation, PVC, low smoke zero halogen sheath.



Structure Of Unshielded XXmm² Fire Alarm Cable

Section	Specification	Overall Diameter (mm)
2*0.2mm ²	2*1/0.5	4.0
4*0.2mm ²	4*1/0.5	4.5
2*0.5mm ²	2*1/0.8	4.6
4*0.5mm ²	4*1/0.8	5.2
2*0.75mm ²	2*1/0.98	5.0
4*0.75mm ²	4*1/0.98	5.6
2*1.0mm ²	2*1/1.13	5.6
4*1.0mm ²	4*1/1.13	6.2



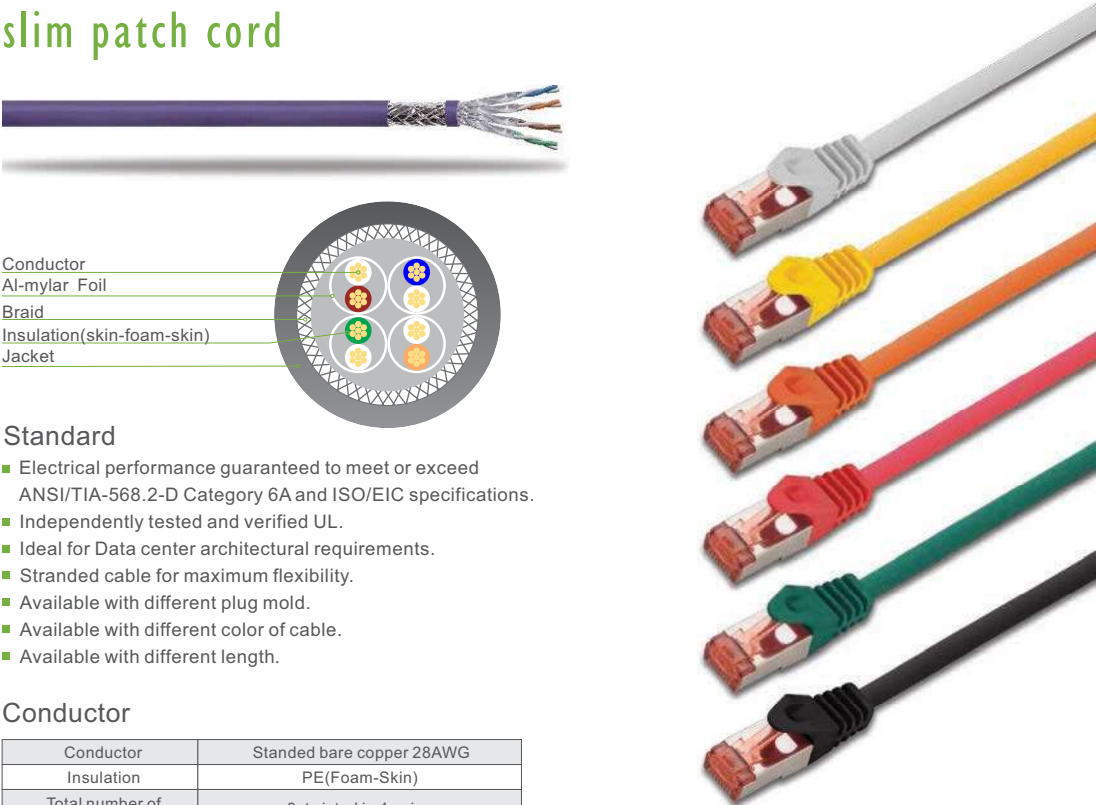
Structure Of Shielded XXmm² Fire Alarm Cable

Section	Specification	Overall Diameter (mm)
2*0.2mm ²	2*1/0.5	4.3
4*0.2mm ²	4*1/0.5	4.8
2*0.5mm ²	2*1/0.8	4.9
4*0.5mm ²	4*1/0.8	5.5
2*0.75mm ²	2*1/0.98	5.3
4*0.75mm ²	4*1/0.98	5.9
2*1.0mm ²	2*1/1.13	5.9
4*1.0mm ²	4*1/1.13	6.5

STRUCTURED CABLING

PATCH CORD

S/FTP double fully shielded twisted 4 pairs category 6A
slim patch cord



Conductor
Al-mylar Foil
Braid
Insulation(skin-foam-skin)
Jacket

Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 6A and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

Conductor

Conductor	Standed bare copper 28AWG
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

Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	550	50	1	3	65.0	19.0	62.0	63.3	62.0	59.0	60.3
				4	4.2	63.0	19.0	58.9	51.2	60.5	56.4	48.2
				8	5.8	58.2	19.0	52.4	45.2	55.6	49.8	42.2
				10	6.5	56.6	19.0	50.1	43.3	54.0	47.5	40.3
				16	8.2	53.2	18.0	45.0	39.2	50.6	42.4	36.2
				20	9.2	51.6	17.5	42.5	37.2	49.0	39.8	34.2
				25	10.2	50.0	17.0	39.8	35.3	47.3	37.1	32.3
				31.25	11.5	48.4	16.5	36.9	33.4	45.7	34.2	30.4
				62.5	16.4	43.4	14.0	27.0	27.3	40.6	24.2	24.3
				100	20.9	39.9	12.0	19.0	23.3	37.1	16.2	20.3
				200	30.1	34.8	9.0	4.7	17.2	31.9	1.8	14.2
				250	33.9	33.1	8.0	-0.8	15.3	30.2	-3.7	12.3
				350	40.6	30.3	6.6	-10.3	12.4	27.3	-13.3	9.4
				500	49.3	26.1	6.0	-23.2	9.3	23.2	-26.1	6.3

Order information (Part Number)
NTPC6A SFTPSL

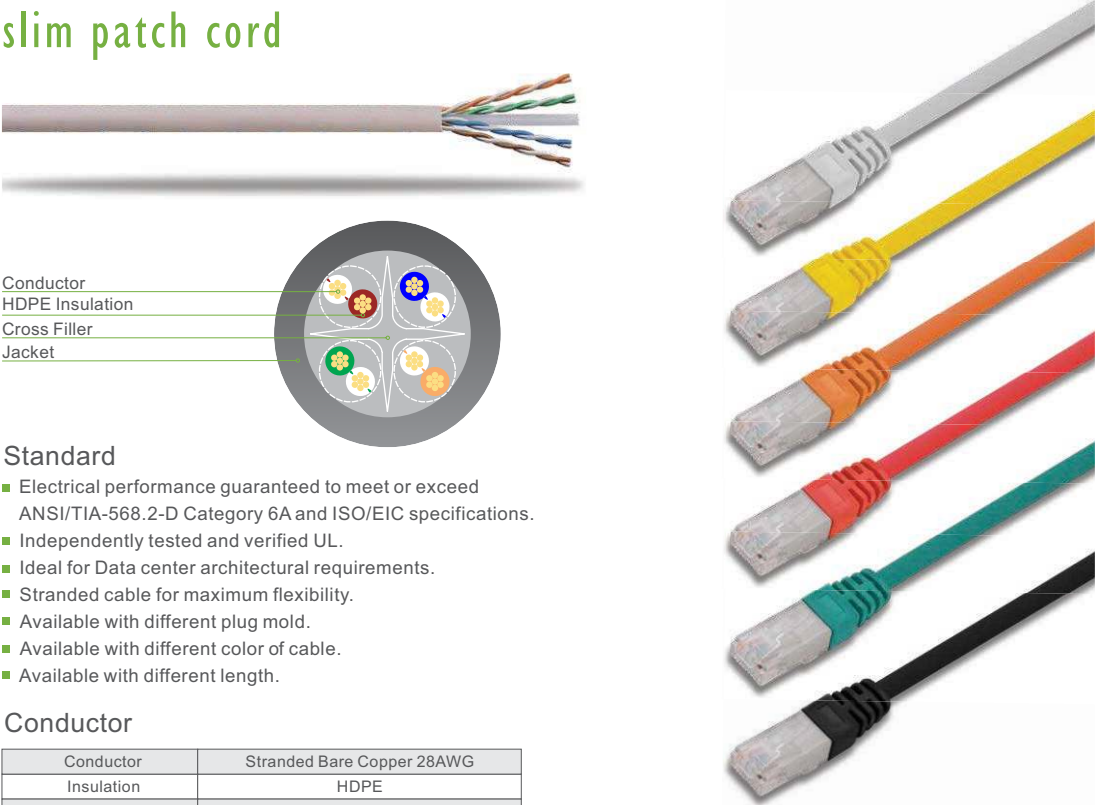
Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10	GY	BK	GN	OR
15	25	50				

Special orders available upon request.

STRUCTURED CABLING

PATCH CORD

U/UTP unshielded twisted 4 pairs category 6A
slim patch cord



Conductor
HDPE Insulation
Cross Filler
Jacket

Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 6A and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

Conductor

Conductor	Stranded Bare Copper 28AWG
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

Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	550	50	1	3	65.0	19.0	62.0	63.3	62.0	59.0	60.3
				4	4.2	63.0	19.0	58.9	51.2	60.5	56.4	48.2
				8	5.8	58.2	19.0	52.4	45.2	55.6	49.8	42.2
				10	6.5	56.6	19.0	50.1	43.3	54.0	47.5	40.3
				16	8.2	53.2	18.0	45.0	39.2	50.6	42.4	36.2
				20	9.2	51.6	17.5	42.5	37.2	49.0	39.8	34.2
				25	10.2	50.0	17.0	39.8	35.3	47.3	37.1	32.3
				31.25	11.5	48.4	16.5	36.9	33.4	45.7	34.2	30.4
				62.5	16.4	43.4	14.0	27.0	27.3	40.6	24.2	24.3
				100	20.9	39.9	12.0	19.0	23.3	37.1	16.2	20.3
				200	30.1	34.8	9.0	4.7	17.2	31.9	1.8	14.2
				250	33.9	33.1	8.0	-0.8	15.3	30.2	-3.7	12.3
				350	40.6	30.3	6.6	-10.3	12.4	27.3	-13.3	9.4
				500	49.3	26.1	6.0	-23.2	9.3	23.2	-26.1	6.3

Order information (Part Number)
NTPC6A SL

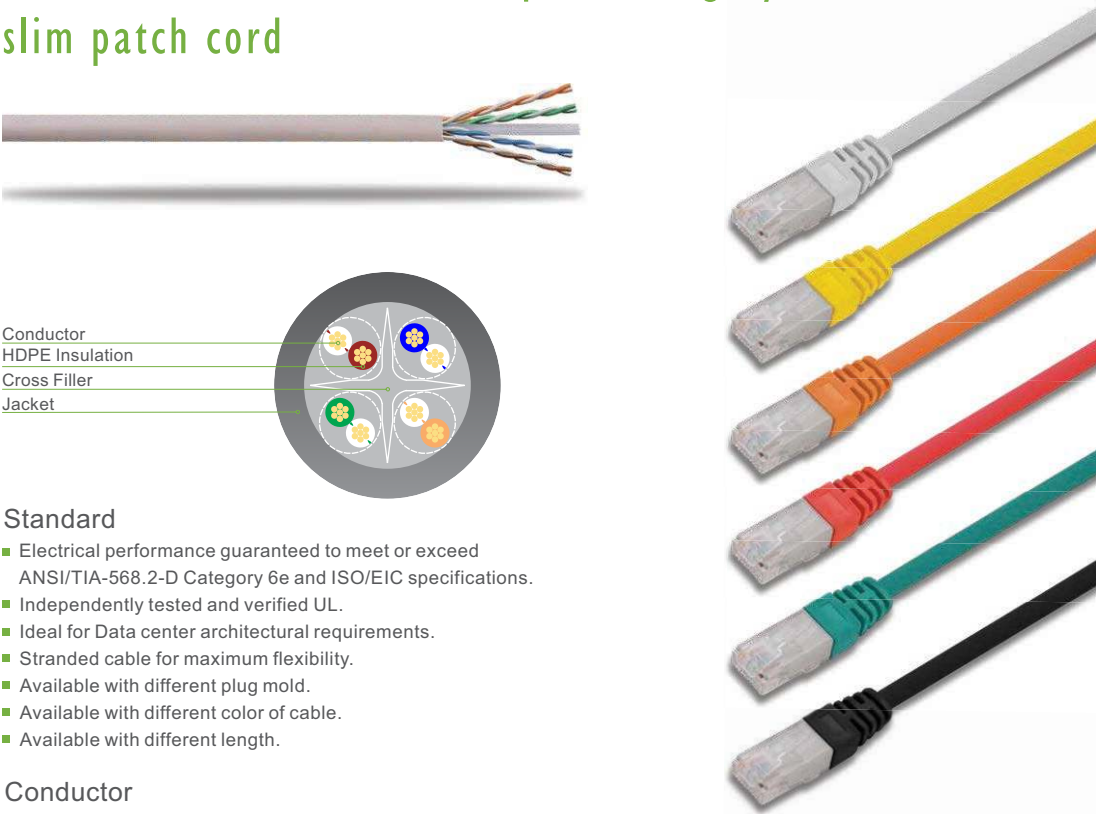
Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10	GY	BK	GN	OR
15	25	50				

Special orders available upon request.

STRUCTURED CABLING

PATCH CORD

U/UTP unshielded twisted 4 pairs category 6E
slim patch cord



Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 6e and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

Conductor

Conductor	Stranded Bare Copper 28AWG
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

Order information (Part Number)
NTPC6E SL

Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10	GY	BK	GN	OR
15	25	50				

Special orders available upon request.

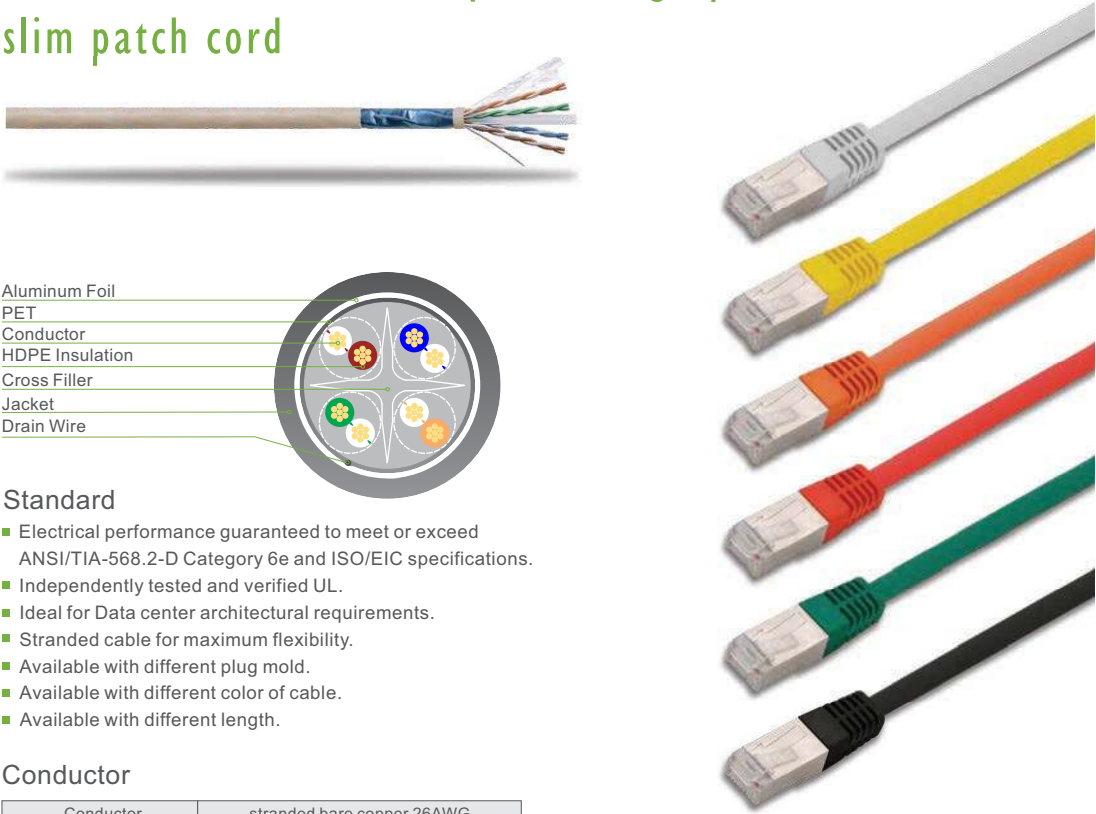
Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	555	50	1	3	65.0	19.0	62.0	63.3	62.0	59.0	60.3
				4	4	63.0	19.0	59.0	51.2	60.5	56.5	48.2
				8	5.7	58.2	19.0	52.5	45.2	55.6	49.9	42.2
				10	6.3	56.6	19.0	50.2	43.3	54.0	47.7	40.3
				16	8	53.2	18.0	45.2	39.2	50.6	42.6	36.2
				20	9	51.6	17.5	42.6	37.2	49.0	39.9	34.2
				25	10.1	50.0	17.0	39.9	35.3	47.3	37.2	32.3
				31.25	11.4	48.4	16.5	37.0	33.4	45.7	34.3	30.4
				62.5	16.5	43.4	14.0	26.9	27.3	40.6	24.1	24.3
				100	21.3	39.9	12.0	18.6	23.3	37.1	15.8	20.3
				200	31.5	34.8	9.0	3.3	17.2	31.9	0.3	14.2
				250	35.9	33.1	8.0	-2.8	15.3	30.2	-5.8	12.3

STRUCTURED CABLING

PATCH CORD

F/FTP shielded twisted 4 pairs category 6E
slim patch cord



Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 6e and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

Conductor

Conductor	stranded bare copper 26AWG
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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	Tinned copper

Order information (Part Number)
NTPC6E FFTPSL

Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10	GY	BK	GN	OR
15	25	50				

Special orders available upon request.

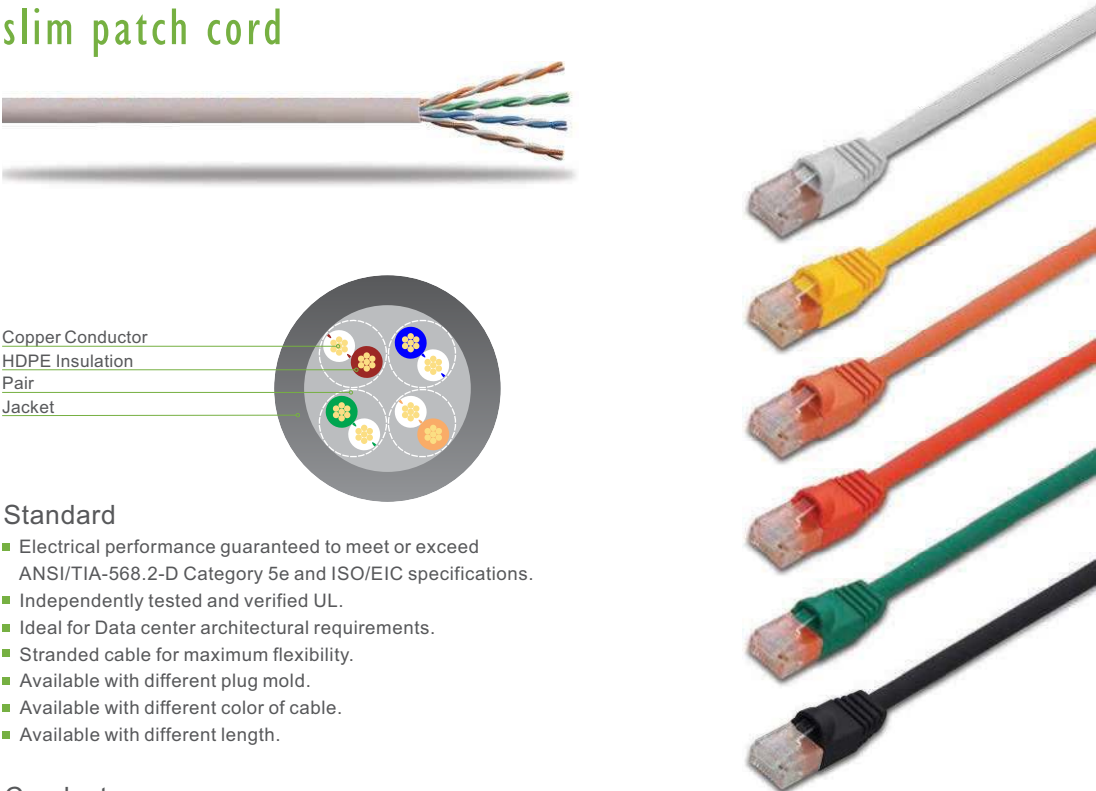
Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	555	50	1	3	65.0	19.0	62.0	63.3	62.0	59.0	60.3
				4	4	63.0	19.0	59.0	51.2	60.5	56.5	48.2
				8	5.7	58.2	19.0	52.5	45.2	55.6	49.9	42.2
				10	6.3	56.6	19.0	50.2	43.3	54.0	47.7	40.3
				16	8	53.2	18.0	45.2	39.2	50.6	42.6	36.2
				20	9	51.6	17.5	42.6	37.2	49.0	39.9	34.2
				25	10.1	50.0	17.0	39.9	35.3	47.3	37.2	32.3
				31.25	11.4	48.4	16.5	37.0	33.4	45.7	34.3	30.4
				62.5	16.5	43.4	14.0	26.9	27.3	40.6	24.1	24.3
				100	21.3	39.9	12.0	18.6	23.3	37.1	15.8	20.3
				200	31.5	34.8	9.0	3.3	17.2	31.9	0.3	14.2
				250	35.9	33.1	8.0	-2.8	15.3	30.2	-5.8	12.3

STRUCTURED CABLING

PATCH CORD

U/UTP unshielded twisted 4 pairs category 5E
slim patch cord



Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 5e and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

Conductor

Conductor	stranded bare copper 28AWG
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

Order information (Part Number)
NTPC5E SL

Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10				
15	25	50	GY	BK	GN	OR

Special orders available upon request.

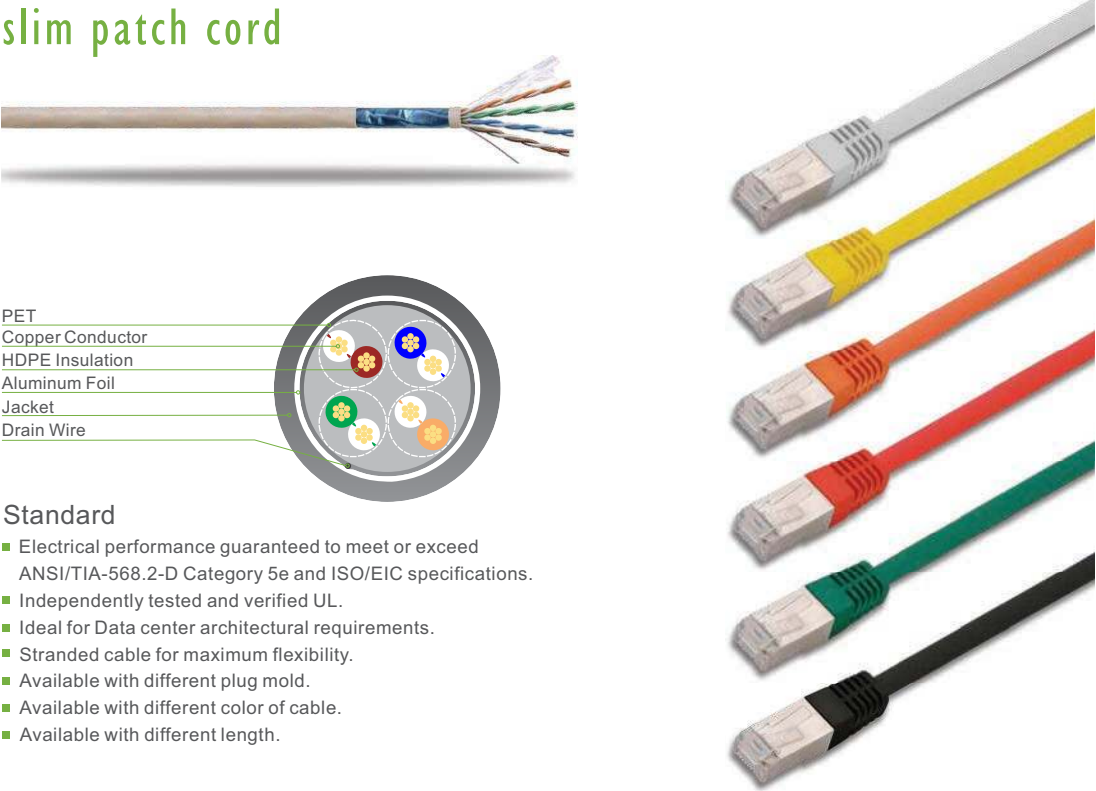
Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	555	50	1	3	60.0	17.0	57.0	57.4	57.0	54.0	54.4
				4	4.5	53.5	17.0	49.1	45.4	50.5	46.1	42.4
				8	6.3	48.6	17.0	42.3	39.3	45.6	39.3	36.3
				10	7.1	47.0	17.0	39.9	37.4	44.0	36.9	34.4
				16	9.1	43.6	17.0	34.5	33.3	40.6	31.5	30.3
				20	10.2	42.0	17.0	31.8	31.4	39.0	28.8	28.4
				25	11.4	40.3	16.0	28.9	29.4	37.3	25.9	26.4
				31.25	12.9	38.7	15.1	25.9	27.5	35.7	22.9	24.5
				62.5	18.6	33.6	12.1	15.0	21.2	30.6	12.0	18.5
				100	24	30.1	10.0	6.1	17.4	27.1	3.1	14.4

STRUCTURED CABLING

PATCH CORD

F/UTP shielded twisted 4 pairs category 5E
slim patch cord



Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 5e and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

Conductor

Conductor	stranded bare copper 28AWG
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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

Order information (Part Number)
NTPC5E FTPSL

Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10				
15	25	50	GY	BK	GN	OR

Special orders available upon request.

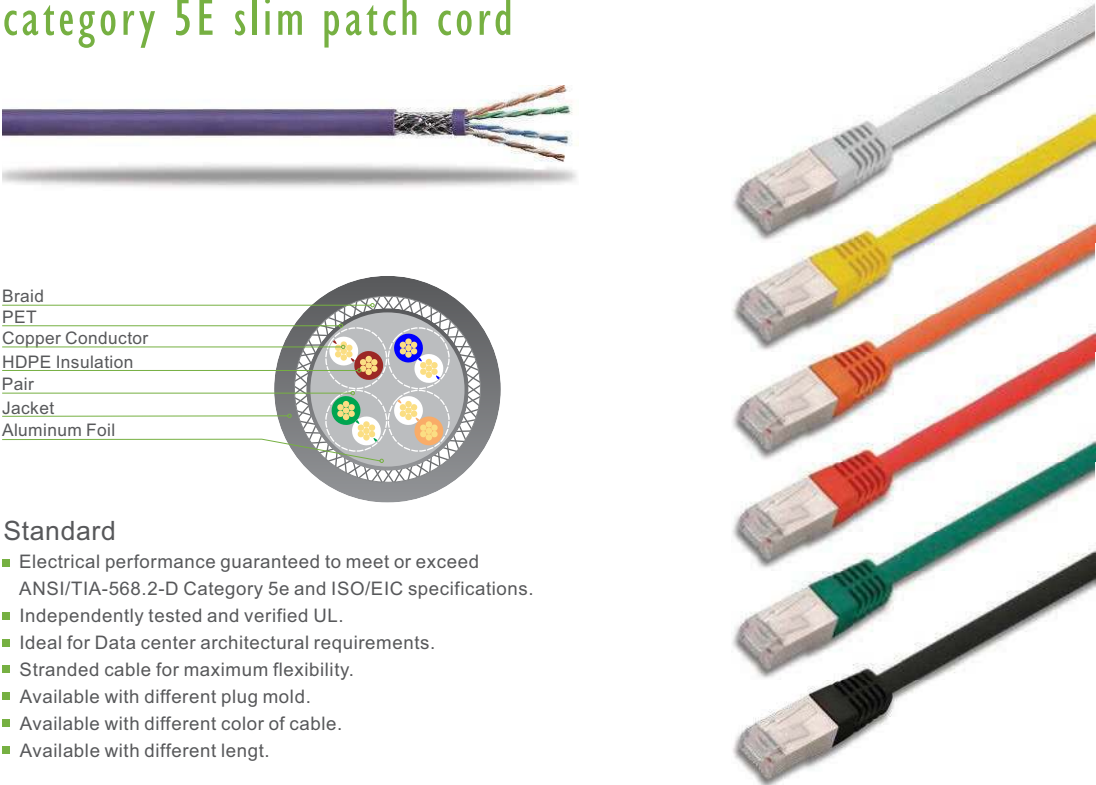
Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	555	50	1	3	60.0	17.0	57.0	57.4	57.0	54.0	54.4
				4	4.5	53.5	17.0	49.1	45.4	50.5	46.1	42.4
				8	6.3	48.6	17.0	42.3	39.3	45.6	39.3	36.3
				10	7.1	47.0	17.0	39.9	37.4	44.0	36.9	34.4
				16	9.1	43.6	17.0	34.5	33.3	40.6	31.5	30.3
				20	10.2	42.0	17.0	31.8	31.4	39.0	28.8	28.4
				25	11.4	40.3	16.0	28.9	29.4	37.3	25.9	26.4
				31.25	12.9	38.7	15.1	25.9	27.5	35.7	22.9	24.5
				62.5	18.6	33.6	12.1	15.0	21.2	30.6	12.0	18.5
				100	24	30.1	10.0	6.1	17.4	27.1	3.1	14.4

STRUCTURED CABLING

PATCH CORD

SF/UTP double fully shielded twisted 4 pairs
category 5E slim patch cord



Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 5e and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different lengt.

Conductor

Conductor	stranded bard copper 28AWG
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	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

Nominal Transmission Characteristics

Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	100m	555	50	1	3	60.0	17.0	57.0	57.4	57.0	54.0	54.4
				4	4.5	53.5	17.0	49.1	45.4	50.5	46.1	42.4
				8	6.3	48.6	17.0	42.3	39.3	45.6	39.3	36.3
				10	7.1	47.0	17.0	39.9	37.4	44.0	36.9	34.4
				16	9.1	43.6	17.0	34.5	33.3	40.6	31.5	30.3
				20	10.2	42.0	17.0	31.8	31.4	39.0	28.8	28.4
				25	11.4	40.3	16.0	28.9	29.4	37.3	25.9	26.4
				31.25	12.9	38.7	15.1	25.9	27.5	35.7	22.9	24.5
				62.5	18.6	33.6	12.1	15.0	21.2	30.6	12.0	18.5
				100	24	30.1	10.0	6.1	17.4	27.1	3.1	14.4

STRUCTURED CABLING

PATCH CORD

U/UTP unshielded twisted 4 pairs category 6
flat patch cord



Conductor

Conductor	stranded bard copper 32AWG
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	None
Drain wire	None

Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568.2-D Category 6 and ISO/EIC specifications.
- Independently tested and verified UL.
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different lengt.

Order information (Part Number)

NTFPC6E

Available Length			Jacket Color			
01	02	03	BU	RD	WH	YL
05	07	10	GY	BK	GN	OR
15	25	50				

Special orders available upon request.

Nominal Transmission Characteristics

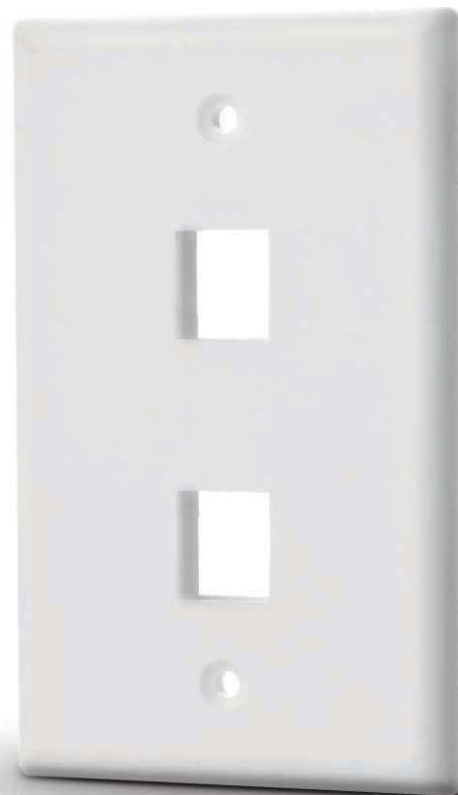
Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
Ω	Max.	ns	ns	MHz	dB	dB	dB	dB	dB	dB	dB	dB
i	20m	555	50	1	3	65.0	19.0	62.0	63.3	62.0	59.0	60.3
				4	4	63.0	19.0	59.0	51.2	60.5	56.5	48.2
				8	5.7	58.2	19.0	52.5	45.2	55.6	49.9	42.2
				10	6.3	56.6	19.0	50.2	43.3	54.0	47.7	40.3
				16	8	53.2	18.0	45.2	39.2	50.6	42.6	36.2
				20	9	51.6	17.5	42.6	37.2	49.0	39.9	34.2
				25	10.1	50.0	17.0	39.9	35.3	47.3	37.2	32.3
				31.25	11.4	48.4	16.5	37.0	33.4	45.7	34.3	30.4
				62.5	16.5	43.4	14.0	26.9	27.3	40.6	24.1	24.3
				100	21.3	39.9	12.0	18.6	23.3	37.1	15.8	20.3
				200	31.5	34.8	9.0	3.3	17.2	31.9	0.3	14.2
				250	35.9	33.1	8.0	-2.8	15.3	30.2	-5.8	12.3

STRUCTURED CABLING FACEPLATE



Shuttered FACEPLATE	
American Face Plate	037 — 046
Shuttered Face Plate	047 — 049
86 Face Plate	050 — 050
Surface Mount Box	051 — 054
Uk Face Plate	055 — 058
German Face Plate	059 — 059
Modules	060 — 064

STRUCTURED CABLING AMERICAN FACEPLATE

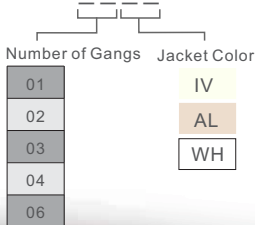


Face Plate

- Jack face plate flush plate.
- 1/2/3/4/6 ports available.
- Various color available.
- Dimensions:114*70*9. 5mm.
- Assembly:19. 5mm.
- Description:Flush plate.

Order information (Part Number)

NTFP



NTFPBLWH
faceplate



NTFP01WH
faceplate



NTFP02WH
faceplate



NTFP03WH
faceplate



NTFP04WH
faceplate



NTFP06WH
faceplate

STRUCTURED CABLING AMERICAN FACEPLATE

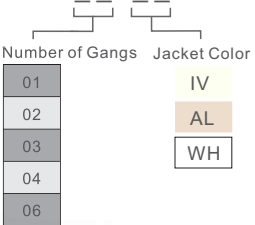


Flush Plate

- Jack flush plate.
- 1/2/3/4/6 ports available.
- Various color available.
- Dimensions:114*70*9. 5mm.
- Increase logo design on port,easy to use & convenient to install.
- Assembly:19. 5mm.
- Description:Flush plate.

Order information (Part Number)

NTFP L



NTFP01LWH
flush plate



NTFP02LWH
flush plate



NTFP03LWH
flush plate



NTFP04LWH
flush plate



NTFP06LWH
flush plate

STRUCTURED CABLING

AMERICAN FACEPLATE

NTFPRJ141WH

Faceplate Op White/Ivory Single RJ-14 With Wiring



- Smooth faceplate.
- Integral jack and screw-type terminal block.
- Mounts on mounting bracket or standard.
- Electrical outlet box.

Order Information:

PART Number	Color
NTFPRJ141WH	WHITE
NTFPRJ142IV	IVORY

NTFPRJ142WH

Faceplate Op White/Ivory dual RJ-14 With Wiring



- Smooth faceplate.
- Integral jack and screw-type terminal block.
- Mounts on mounting bracket or standard.
- Electrical outlet box.

Order Information:

PART Number	Color
NTFPRJ142WH	WHITE
NTFPRJ142IV	IVORY

NTFPF811WH

Faceplate Op White/Ivory Single F-81 Connector



- F connector module, perfect for use CATV applications.
- Includes mounting screws.

Order Information:

PART Number	Color
NTFPF811WH	WHITE
NTFPF811IV	IVORY

NTFPF812WH

Faceplate Op White/Ivory Dual F-81 Connector



- F connector module, perfect for use CATV applications.
- Includes mounting screws.

Order Information:

PART Number	Color
NTFPF812WH	WHITE
NTFPF812IV	IVORY

STRUCTURED CABLING

AMERICAN FACEPLATE

NTFPRJ14FWH

Faceplate Op White/ Ivory RJ-14 And F-81 Connector



- Provide quick at-the-wall connections for RJ11/RJ14 telephone and F connection video applications;
- High quality plastic for superior resistance to impacts, chemicals and solvents; mid-size wallplates hide irregular cuts or flaws around outlets

Order Information:

PART Number	Color
NTFPRJ14FWH	WHITE
NTFPRJ14FIV	IVORY

NTFPRJ142FWH

Faceplate Op White/ Ivory RJ-14 And F-81 Connector



- Provide quick at-the-wall connections for RJ11/RJ14 telephone and F connection video applications;
- High quality plastic for superior resistance to impacts, chemicals and solvents; mid-size wallplates hide irregular cuts or flaws around outlets

Order Information:

PART Number	Color
NTFPRJ142FWH	WHITE
NTFPRJ142FIV	IVORY

NTFPHRJ1401WH

Face plate Op White/ Ivory RJ-14 Hanging Style With Wiring



- Wall phone jacks available in 4-or-6-conductor models.
- Screw terminal or quick-connect termination options.

Order Information:

PART Number	Color
NTFPHRJ1401WH	WHITE
NTFPHRJ1401IV	IVORY

NTFPHDMIFWH

Face plate one HDMI and F-81 connector



Order Information:

PART Number	Color
NTFPHDMIFWH	WHITE
NTFPHDMIFIV	IVORY

STRUCTURED CABLING

AMERICAN FACEPLATE

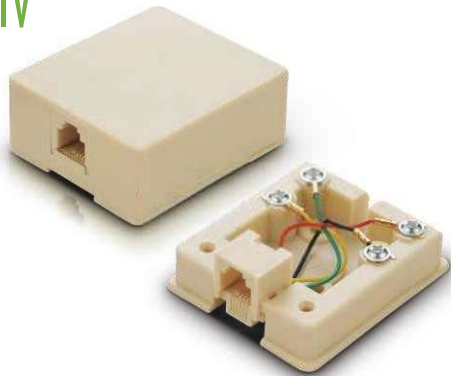
NTMBRJ1401WH / NTMBRJ1401IV

Faceplate Op White/ Ivory Single RJ-14 Surface Mount

- Screw terminal base with snap-on cover.
- Includes mounting screws and double-sided tape.

Order Information:

PART Number	Color
NTMBRJ1401WH	WHITE
NTMBRJ1401IV	IVORY



NTMBRJ141WH / NTMBRJ141IV

Faceplate Op White/ Ivory Single RJ-14 Surface Mount

- Screw terminal base with snap-on cover.
- Includes mounting screws and double-sided tape.

Order Information:

PART Number	Color
NTMBRJ141WH	WHITE
NTMBRJ141IV	IVORY



NTMBRJ142WH / NTMBRJ142IV

Faceplate Op White/ Ivory Dual RJ-14 Surface Mount

- Screw terminal base with snap-on cover.
- Includes mounting screws and double-sided tape.

Order Information:

PART Number	Color
NTMBRJ142WH	WHITE
NTMBRJ142IV	IVORY



STRUCTURED CABLING

AMERICAN FACEPLATE

NTFPD01WH

Decora faceplate White/Ivory Single Gang



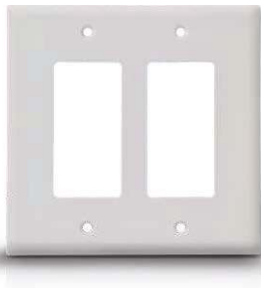
- This series offers the traditional electrical look often requested by the residential market.
- Suited for home office environment.
- Ideal for multiple applications.
- SIZE:75*124*6 mm.

Order Information:

PART Number	Color
NTFPD01WH	WHITE
NTFPD01IV	IVORY

NTFPD02WH

Decora faceplate White/Ivory Two Gang



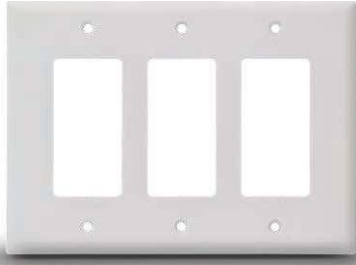
- This series offers the traditional electrical look often requested by the residential market.
- Suited for home office environment .
- Ideal for multiple applications.
- SIZE:125.5*124*6 mm.

Order Information:

PART Number	Color
NTFPD02WH	WHITE
NTFPD02IV	IVORY

NTFPD03WH

Decora faceplate White/ Ivory Three Gang



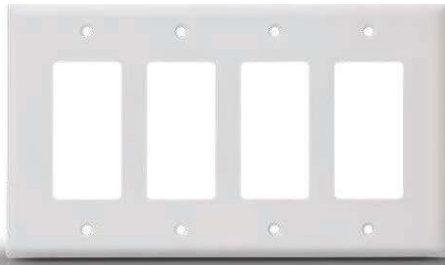
- This series offers the traditional electrical look often requested by the residential market.
- Suited for home office environment.
- Ideal for multiple applications.
- SIZE:172*124*6 mm.

Order Information:

PART Number	Color
NTFPD03WH	WHITE
NTFPD04IV	IVORY

NTFPD04WH

Decora faceplate White/ Ivory Four Gang



- This series offers the traditional electrical look often requested by the residential market.
- Suited for home office environment.
- Ideal for multiple applications.
- SIZE:217*124*6 mm.

Order Information:

PART Number	Color
NTFPD04WH	WHITE
NTFPD04IV	IVORY

STRUCTURED CABLING

AMERICAN FACEPLATE

NTFPDIAV01WH

Faceplate insert white/ ivory single hole



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIAV01WH	WHITE
NTFPDIAV01IV	IVORY

NTFPDIAV02WH

Faceplate Insert White/ Ivory Two Hole Vertical



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIAV02WH	WHITE
NTFPDIAV02IV	IVORY

NTFPDIAV02HWH

Faceplate Insert White/ Ivory Two Hole Horizontal



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIAV02HWH	WHITE
NTFPDIAV02HIV	IVORY

NTFPDIAV04WH

Faceplate Insert White/ Ivory Four Hole



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIAV04WH	WHITE
NTFPDIAV04IV	IVORY

NTFPDIAV06WH

Faceplate Insert White/ Ivory Six Hole



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIAV06WH	WHITE
NTFPDIAV06IV	IVORY

NTFPDIAV08WH

Faceplate Insert White/ Ivory Eight Hole



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIAV08WH	WHITE
NTFPDIAV08IV	IVORY

STRUCTURED CABLING

AMERICAN FACEPLATE

NTFPDIRJ01WH

Faceplate Insert White/ Ivory Single RJ-45



■ Combine voice, data, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIRJ01WH	WHITE
NTFPDIRJ01IV	IVORY

NTFPDIRJ02WH

Faceplate Insert White/ Ivory Dual RJ-45



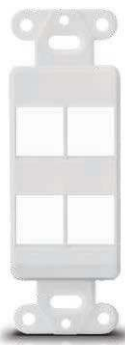
■ Combine voice, data, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIRJ02WH	WHITE
NTFPDIRJ02IV	IVORY

NTFPDIRJ04WH

Faceplate Insert White/ Ivory four RJ-45



■ Combine voice, data, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDIRJ04WH	WHITE
NTFPDIRJ04IV	IVORY

NTFPDI01WH

Faceplate Insert White/ Ivory Single RJ-11/RJ-14 Insert



■ Combine voice connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDI01WH	WHITE
NTFPDI01IV	IVORY

NTFPDI02WH

Faceplate Insert White/ Ivory Dual RJ-11/RJ-14 Insert



■ Combine voice, and A/V connectors in popular wallplate.

Order Information:

PART Number	Color
NTFPDI02WH	WHITE
NTFPDI02IV	IVORY

NTFPDIF02WH

Faceplate insert RJ11 and F -81 connector



■ Provide quick at-the-wall connections for RJ11 telephone and F connection video applications.

Order Information:

PART Number	Color
NTFPDIF02WH	WHITE
NTFPDIF02IV	IVORY

NTFPDIBLWH

Faceplate Blank Insert White / Ivory



■ Blank, Combine in popular wallplate.

Order Information:

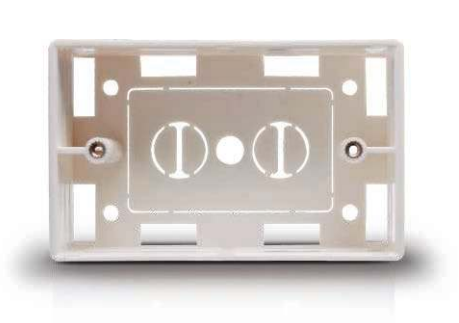
PART Number	Color
NTFPDIBLWH	WHITE
NTFPDIBLIV	IVORY

STRUCTURED CABLING

AMERICAN FACEPLATE

NTMB24

Back box



- Size: 115*72*35(mm)
- Material: ABS.
- Color: White,Ivory.

Order Information:

Ltem	Description	Size
NTMB24	Mounting Box	115*72*35mm

NTFPBLWH

Faceplate



- Size: 114*70*6(mm)
- Material: ABS.
- Color: White,Ivory.

Order Information:

PART Number	Color
NTFPBLWH	WHITE
NTFPBLIV	IVORY

NTKIBLIV

Faceplate Blank RJ45 Insert
White/ Ivory



- Faceplate blank RJ45 insert.

Order Information:

PART Number	Color
NTKIBLWH	WHITE
NTKIBLIV	IVORY

NTKIHWH

Faceplate RJ45 insert white/Ivory
with hole



- Faceplate RJ45 insert with hole.

Order Information:

PART Number	Color
NTKIHWH	WHITE
NTKIHIV	IVORY

NTXHDAC01424/01426

HDMI connector



Order Information:

PART Number	Color
NTXHDAC01424	WHITE
NTXHDAC01426	IVORY

Other colors available upon request

STRUCTURED CABLING

AMERICAN FACEPLATE

NTKISTWH

Faceplate RJ45 insert st
connector



NTKIF8INWH

Faceplate RJ45 insert f-81
connector(nickel plating)



NTKIF8IGWH

Faceplate RJ45 insert f-81
connector (gold plating)



NTKIRCAWH

Faceplate insert with RCA
connector



NTKIBDWH

Faceplate RJ45 insert
binding connector



NTKIBNCWH

Faceplate RJ45 insert BNC
connector



NTKIRCA2BK

Faceplate RJ45 insert
RCA connector



NTKISCBK

Faceplate RJ45 insert
SC connector



NTKILCBK

Faceplate RJ45 insert
LC connector



NTKIUSBWH

Faceplate RJ45 insert
USB connector



Other colors available upon request

STRUCTURED CABLING SHUTTERED FACEPLATE

NTSFP01WH

Shuttered Type Outlet Plate



- Feature: Fit for RJ45 Keystone jack.
- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: One port faceplate

NTSFP02WH

ShutteredType Outlet Plate



- Feature: Fit for RJ45 Keystone jack.
- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Two port faceplate

NTSFP03WH

Shuttered Type Outlet Plate



- Feature: Fit for RJ45 Keystone jack.
- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Three port faceplate

NTSFP04WH

Shuttered Type Outlet Plate



- Feature: Fit for RJ45 Keystone jack.
- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Four port faceplate

STRUCTURED CABLING SHUTTERED FACEPLATE

NTSFP01LWH

Shuttered Type Outlet Plate



- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: One port face plate

NTSFP02LWH

Shuttered Type Outlet Plate



- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Two port face plate

NTSFP03LWH

Shuttered Type Outlet Plate



- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Three port face plate

NTSFP04LWH

Shuttered Type Outlet Plate



- Feature: Fit for RJ45 Keystone jack.
- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Four port face plate

STRUCTURED CABLING

SHUTTERED FACEPLATE

NTSFP4501WH

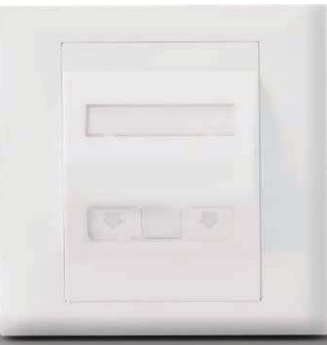
45 Degree Outlet Plate



- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: One port face plate

NTSFP4502WH

45 Degree Outlet Plate



- Size: 86*86(mm)
- Assembly: 20(mm)
- Material: PC/ABS.
- Color: White.
- Description: Two port face plate

NTMB45

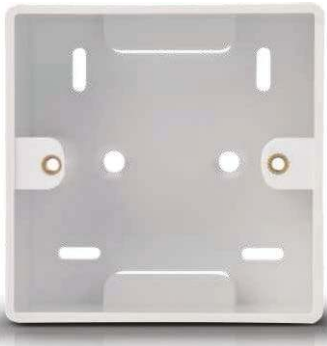
Back box



- Feature: Has been deepened, especially suitable for Cat6 system & shielded system.
- Size: 86*86*45(mm)
- Material: ABS.
- Color: White.

NTMB35

Back box



- Size: 86*86*35 (mm)
- Material: ABS.
- Color: White.

STRUCTURED CABLING

86 FIBER FACEPLATE

NTFFP02SC

Plastic panel for Fiber coupler



- For 2 port SC type fiber coupler

NTFFP02LC

Plastic panel for Fiber coupler



- For 2 port LC type fiber coupler

NTFP-000

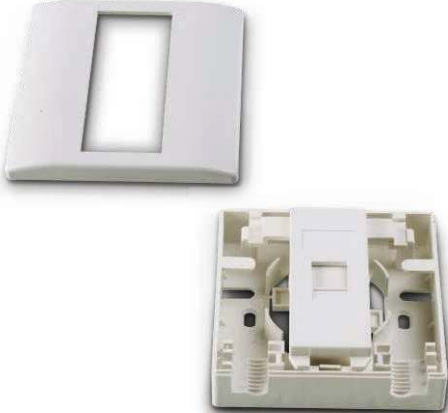
Fiber optic outlet



- Characteristics: Suitable for drop optical fiber. Volume is small, and weight is light. Can be installed on walls and possess the function of mechanical protection. Able to support several ways of connection. Able to carry on management of optical fibers effectively.

NTFP-910

Multimedia Outlet



- For 2 port adaptor 1 port keystone Jack.

STRUCTURED CABLING

SURFACE MOUNT BOX



NTMB02WH

Surface mount box (double)

- Feature: Fit for UTP keystone jack.
- Material: PC/ABS.
- Color: White.
- Description: Two port surface mount box.



NTMB01WH

Surface mount box (single)



- Feature: Fit for UTP keystone jack.
- Material: PC/ABS.
- Color: White.
- Description: Single port surface mount box.

NTMB04WH

Surface mount box (four port)



- Feature: Fit for UTP keystone jack.
- Material: PC/ABS.
- Color: White.
- Description: Four port surface mount box.

NTMB06WH

Surface mount box (six port)



- Feature: Fit for UTP keystone jack.
- Material: PC/ABS.
- Color: White.
- Description: Six port surface mount box.

STRUCTURED CABLING

SURFACE MOUNT BOX

NTMB01LWH

Surface mount box (single)



- Feature: Fit for UTP jack.
- Material: PC/ABS.
- Color: White.
- Description: Single port surface mount box (Dust cover).

NTMB02LWH

Surface mount box (double)



- Feature: Fit for UTP jack.
- Material: PC/ABS.
- Color: White.
- Description: Two port surface mount box (Dust cover).

NTMB01WH-B

Surface mount box (single)



- Feature: Fit for all RJ45 keystone jack.
- Fit for UTP Jack.
- Material: PC/ABS.
- Color: White.
- Description: Single port surface mount box.

NTMB02WH-B

Surface mount box (double)



- Feature: Fit for all RJ45 keystone jack.
- Fit for UTP Jack.
- Material: PC/ABS.
- Color: White.
- Description: Two port surface mount box.

STRUCTURED CABLING

SURFACE MOUNT BOX

NTMB61WH

UTP RJ45 BOX

- Feature: RJ45 Cat 5e/6 Module.
- Description: Box (Single-port).

Order Information:

PART Number	Description
NTMB5E1WH	Cat 5e
NTMB5E1WH	Cat 6



NTMB62WH

UTP RJ45 BOX

- Feature: RJ45 Cat 5e/6 Module.
- Description: Box (Double-port).

Order Information:

PART Number	Description
NTMB5E2WH	Cat 5e
NTMB5E2WH	Cat 6



NTMBS61WH

SHIELDED RJ45 BOX

- Feature: RJ45 Cat 5e/6 Module.
- Description: Box FTP (Single-port).

Order Information:

PART Number	Description
NTMBS5E1WH	Cat 5e
NTMBS61WH	Cat 6



STRUCTURED CABLING

SURFACE MOUNT BOX

NTMBS62WH

FTP RJ45 BOX

- Feature: RJ45 Cat 5e/6 Module.
- Description: Box FTP (Double-port).

Order Information:

PART Number	Description
NTMBS5E2WH	Cat 5e
NTMBS62WH	Cat 6



NTMB5ERJ1102WH

Surface BOX

- Description: UTP CAT5E RJ45+RJ11.

Order Information:

PART Number	Description
NTMB5ERJ1102WH	Cat 5e



STRUCTURED CABLING

UK MODULES

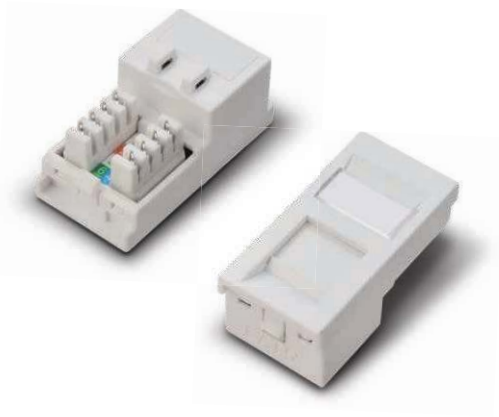
NTUK001A/B

RJ45 Cat 5e /6 Standard Eurostyle Modules

- Overall dimensions 50 x 25mm. Module comply with the ISO and EIA TIA Standard. Each shuttered module is supplied with a slide label field and space above, this is allowed for use of self adhesive or further labeling if required. Termination can be made using Krone tooling, a cable tie base is positioned to the side of the IDC blocks to relieve cable stress.

Order Information:

PART Number	Description
NTUK001A	Cat 5e
NTUK001B	Cat 6



NTUK002A/B

RJ45 Cat 5e /6 Standard LJ6 (6C) Modules

- Overall dimensions 39 x 25mm. Module comply with the ISO and EIA TIA Standard. 6c modules are ideal for floor box installations. The compact two piece design allows for a fast and easy installation and results in a low profile finish.

Order Information:

PART Number	Description
NTUK002A	Cat 5e
NTUK002B	Cat 6



NTUK003A/B

RJ45 Cat 5e /6 Standard Modules

- Overall dimensions 50 x 25mm. Module comply with the ISO and EIA TIA Standard. Each shuttered module is supplied with a slide label field and space above, this is allowed for use of self adhesive or further labeling if required. Termination can be made using Krone tooling, a cable tie base is positioned between the IDC blocks to relieve cable stress.

Order Information:

PART Number	Description
NTUK003A	Cat 5e
NTUK003B	Cat 6



STRUCTURED CABLING

UK FACEPLATE

NTUK019

Faceplates



- 1 Port faceplate.
- Fit for assembly 50X25mm modules.

NTUK007

Standard Faceplates



- 1 gang standard faceplate.
- Supplied c/w fixing screws in "easy tear" poly bags and available as 1 gang(accepts up to 2 Euro Style modules).
- Fit for assembly 50X25mm modules .

NTUK008

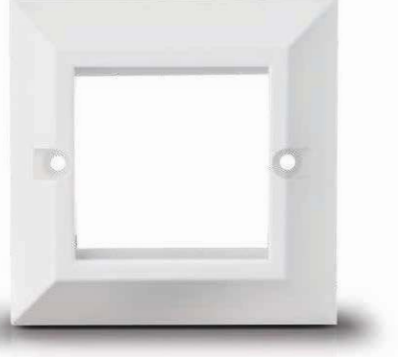
Standard Faceplates



- 2 gang standard faceplate.
- Supplied c/w fixing screws in "easy tear" poly bags and available as 2 gang (accepts up to 4 Euro Style modules).
- Fit for assembly 50X25mm modules .

NTUK009

Beveled Faceplates



- 1 gang beveled faceplate.
- Supplied c/w fixing screws in "easy tear" poly bags and available as 1 gang(accepts up to 2 Euro Style modules).
- Fit for assembly 50X25mm modules .

STRUCTURED CABLING

UK FACEPLATE

NTUK010

Bevelled Faceplates

- 2 gang bevelled faceplate.
- Supplied c/w fixing screws in "easy tear" poly bags and available as 2 gang (accepts up to 4 Euro Style modules).
- Fit for assembly 50X25MM/50X16.6MM modules.



NTUK018

Faceplates



- 1 Port faceplate.
- Fit for assembly 39X25MM LJ6 modules.

NTUK020

Faceplate panel

- Matching the standard British faceplate matching keystone.
- SIZE: 25*50 mm.



NTUK021

Faceplate panel

- Matching LJ6C faceplate (NTUK018 & NTUK036) matching keystone.



NTUK036

Face plates



- 2 Port faceplate.
- Fit for assembly 39X25MM LJ6 modules.

NTUK016

Blanks

- 25X50mm BLANK.



NTUK017

Blanks

- 12.5X50MM BLANK.



STRUCTURED CABLING

UK FACEPLATE

NTUK011

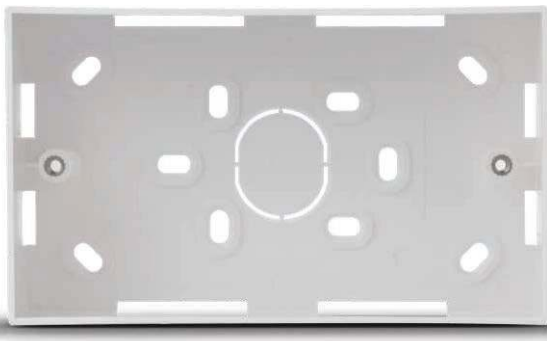
Back box



- 1 gang back box 32mm depth.
- Available in "easy tear" poly bags in 1 gangs-the boxes are also available in standard (32mm) versions.

NTUK012

Back box



- 2 gang back box 32mm depth.
- Available in "easy tear" poly bags in 2 gangs-the boxes are also available in standard (32mm) versions.

NTUK013

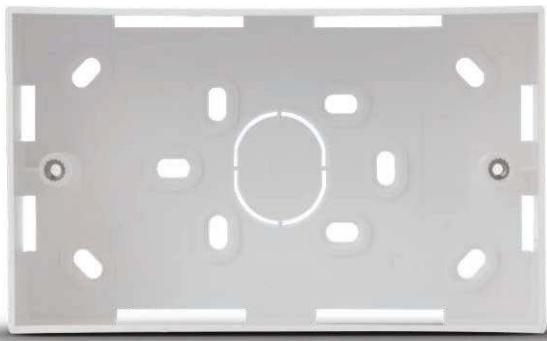
Back box



- 1 gang back box 42mm depth.
- Available in "easy tear" poly bags in 1 gangs-the boxes are also available in standard (42mm) versions.

NTUK014

Back box



- 2 gang back box 42mm depth.
- Available in "easy tear" poly bags in 2 gangs-the boxes are also available in standard (42mm) versions.

STRUCTURED CABLING

GERMAN FACEPLATE

NTDE-01

1 port Wall plate



- 1 port Wallplate for Keystone Modules, German type.
- Plate 50*50mm,Frame 80*80mm.
- A , for connection of keystone Jacks.
- B, Connection way of the module are 45°vertical.
- C, Inclusive module shutter device, avoid dust.
- D, Name plate desing for identification.
- E, Shining structured surface parts.
- F, Full shielded metal housing, usable as central grounding position.
- G, color: white.

NTDE-02

2 port Wall plate



- 1 port Wallplate for Keystone Modules, German type.
- Plate 50*50mm,Frame 80*80mm.
- A , for connection of keystone Jacks.
- B, Connection way of the module are 45°vertical.
- C, Inclusive module shutter device, avoid dust.
- D, Name plate desing for identification.
- E, Shining structured surface parts.
- F, Full shielded metal housing, usable as central grounding position.
- G, color: white.

NTMBDE-03

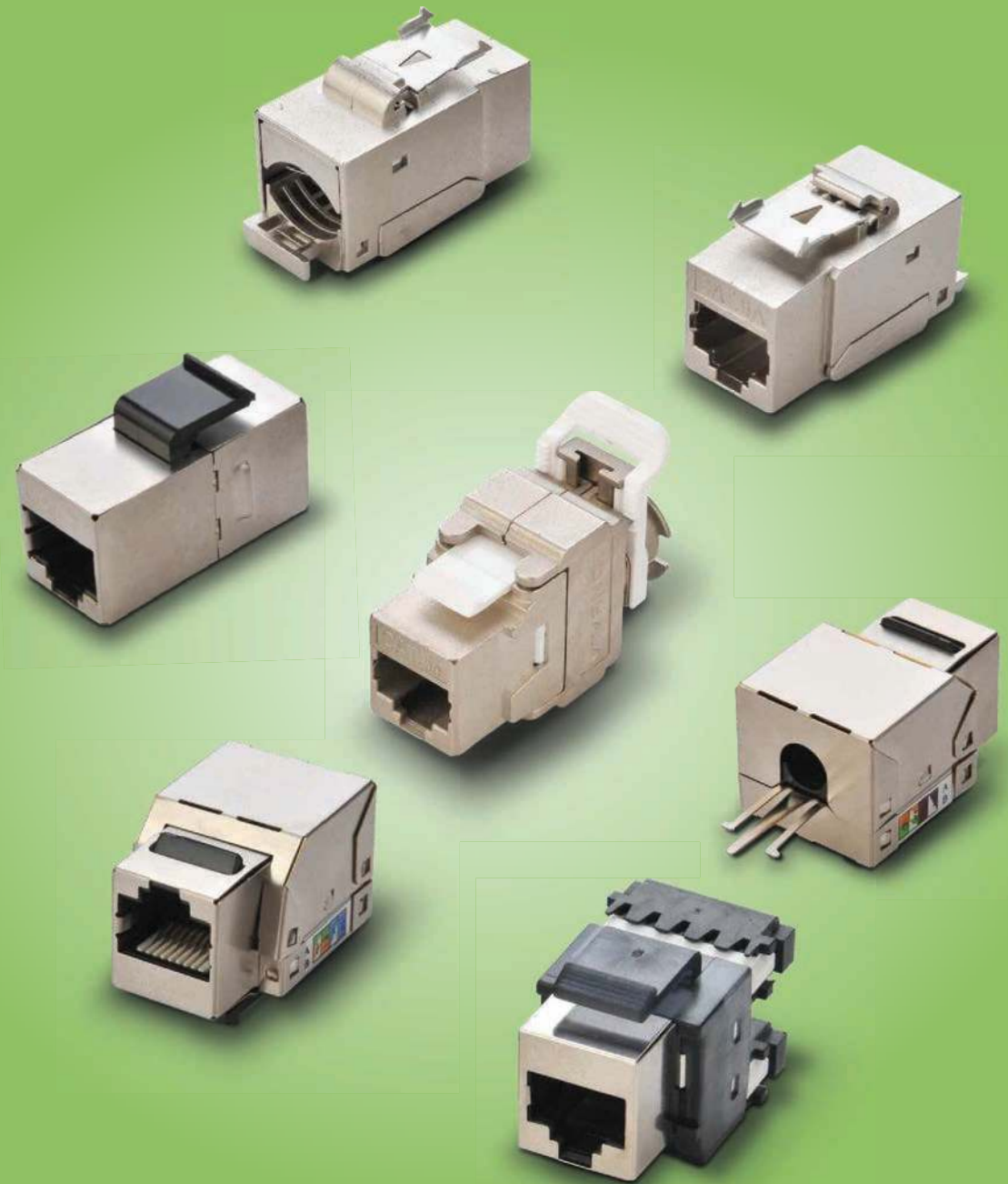
Germany back box



- Surface Mountbox.
- 80x80mm for keystone Wall Outlet.
- Surface Mount frame for additional keystone Jack Wall Outlet.

STRUCTURED CABLING

MODULES



PRODUCT CERTIFICATES



STRUCTURED CABLING MODULES

High Performance Modular Keystone Jacks for Copper Communication Networks



Molding category on the front of the jack provides quick identification of category rating



Reinforced pins increase resistance to strain or damage during 4-6 position plug insertion.



- The IDC ensures a fast and stable connection, protecting the conductor against environment degradation while ensuring the highest quality network performance.
- Pair Separation Towers allow to easily separate wires during termination



- Meet ISO/IEC 11801, TIA/EIA-568.2-D
- Own patent products .
- Used for Wall Plate .
- Fit for wires AWG22-26 .
- IDC insertion life 200 cycles .
- Plug insertion life 750 cycles Min .
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change .
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post .
- Slim design to facilitate installations into compatible faceplates, surface-mount boxes and black panels.

- Reinforced cutting ledge to easily cut off the wires on the first punch.
- Easy to read termination labels.



The dust cap keeps debris from the termination field and helps wires stay in place.



Order information (Part Number)

NTKJ180 SL

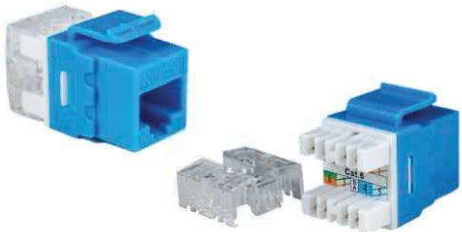
Category	Jacket Color
5E	BU
6E	RD
6A	WH
	YL
	GY
	BK
	GN
	OR

Special orders available upon request.

STRUCTURED CABLING MODULES

NTKJ1806E BU SL

EngineerPro® Cat6E keystone jack 180° .



- Backward compatible
- Compliant with EIA/TIA-568.2-D Cat6 connecting hardware specifications
- PoE Compliance: Supports IEEE 802.3af /802.3at /802.3bt at PoE++ applications and Supports Power over HDBaseT™ (PoH) up to 100 watts
- Dual-color coded labeling made for both 568A & 568B wiring schemes
- Compact slim design fits into any conventional face plate, outlet box, or panel
- UL 1863 approved
- Patented Printed Circuit Board designed to meet Cat6 performances
- Utilizes 180 degree industry standard 110 termination style
- 50u" gold plated contacts.
- Enhanced IDC termination towers reduce installation time and increased performance

Available colors

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

NTKJ1805E BK SL

Cat5E keystone jack 180° .



- Backward compatible
- Compliant with EIA/TIA-568.2-D Cat5E connecting hardware specifications
- Dual-color coded labeling made for both 568A & 568B wiring schemes
- Compact slim design fits into any conventional face plate, outlet box, or panel
- UL 1863 approved
- Patented Printed Circuit Board designed to meet Cat5E performances
- Utilizes 180 degree industry standard 110 termination style
- 50u" gold plated contacts.
- Enhanced IDC termination towers reduce installation time and increased performance

Available colors

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

NTTKJ WH

Telephone jack.



- Own patent products.
- For voice system.
- Contact with gold plated
- Fit for wire AWG22-26.

Available colors

BU	RD	WH	YL	GY	BK	GN	OR
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NTKJ1805EBKSLHSTP

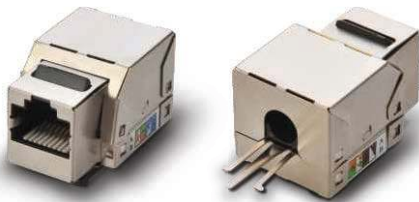
Cat.5e keystone jack 180° half shielded



- Meet ISO/IEC 11801, TIA/EIA568C.
- Half shielded.
- Cat.5e 180° Half Shielded.
- Color: Black.

NTKJ5ESTP

Cat.5e keystone jack shielded.

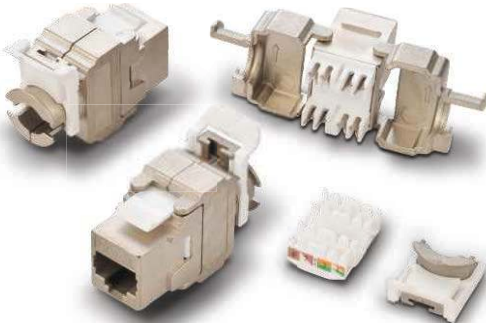


- Meet ISO/IEC 11801, TIA/EIA568C.
- Cat.5e 90° Fully Shielded.

STRUCTURED CABLING MODULES

NTKJI805ESLSTP

CAT5e Keystone jack shielded.



- Meet ISO/IEC 11801,TIA/EIA568C.
- Own patent products.
- Fit for wires AWG22-26
- IDC insertion life 200 cycles
- Plug insertion life 750 cycles Min
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- Slim line shape design for high density applications

NTKJI806ESLSTP

EngineerPro® Serie CAT6E Keystone jack shielded.



- Meet ISO/IEC 11801,TIA/EIA568C.
- Own patent products.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- Slim line shape design for high density applications

NTKJ6ESH

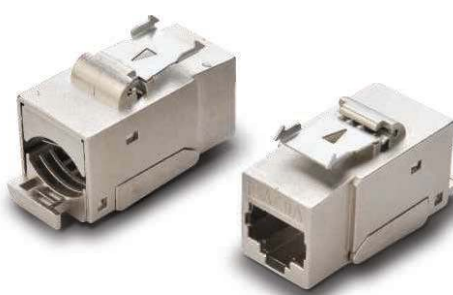
EngineerPro® Serie CAT6E Keystone jack shielded.



- Meet ISO/IEC 11801,TIA/EIA568C.
- Own patent products.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post
- Slim line shape design for high density applications.

NTKJ6ASH

EngineerPro® Serie CAT6A Keystone jack shielded.

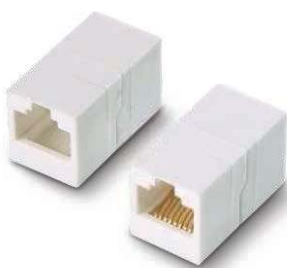


- Meet ISO/IEC 11801,TIA/EIA568C.
- Own patent products.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- Slim line shape design for high density applications

STRUCTURED CABLING MODULES

NTIC5EWH

Modular Cord Coupler 8P8C Without Wire



NTIC5EWH-1

UTP CAT5E RJ45-RJ45 Coupler



NTIC5EWH-2

UTP CAT5E RJ45-RJ45 Coupler



NTIC6EWH

UTP CAT6 RJ45-RJ45 Coupler



NTKJPT5EBK

UTP Cat.5e keystone jack coupler RJ45-RJ45



NTKJPT6EBK

UTP Cat6 keystone jack coupler RJ45-RJ45



NTKJPT5ESH

FTP Cat.5e keystone jack coupler RJ45-RJ45



NTKJPT6ESH

FTP Cat6 keystone jack coupler RJ45-RJ45



NTICBWH

In-line Connection box



STRUCTURED CABLING PATCH PANELS MODULAR PLUG & NETWORK TOOLS



Patch Panels	067 — 080
Cable Management	081 — 082
Modular Plug	083 — 084
Network Tool	085 — 088

STRUCTURED CABLING PATCH PANELS

NTPP5E24U

Cat.5e patch panel.

Features

- Professional design, plastic cover with plastic cover that generates an enhanced appearance.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801,TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- 110 type IDC color coded wiring blocks for easy cable lacing.
- UL Verified.



Order Information:

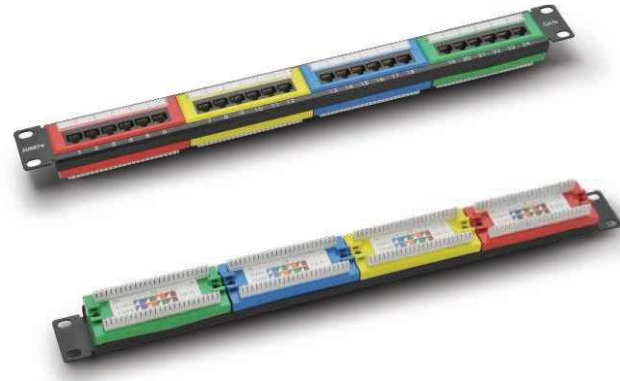
Item No.	Description
NTPP5E24U	19", 1U, 12 ports
NTPP5E48U	19", 1U, 24 ports

NTPPM5E24U

Cat.5e Multicolor patch panel.

Features

- Multicolor.
- Professional design, plastic cover with plastic cover that generates an enhanced appearance.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801,TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- 110 type IDC color coded wiring blocks for easy cable lacing.
- UL Verified.



Order Information:

Item No.	Description
NTPPM5E24U	19", 1U, 24ports
NTPPM5E48U	19", 1U, 48 ports

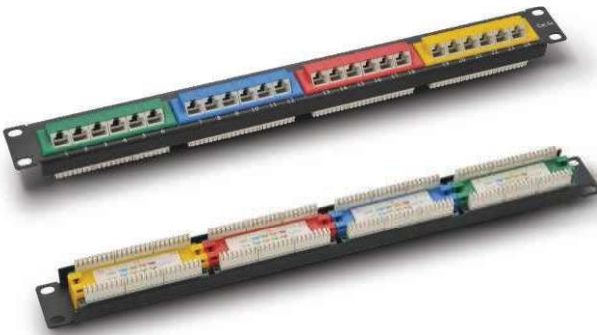
STRUCTURED CABLING PATCH PANELS

NTPPM455E24U

Cat.5e Multicolor patch panel.

Features

- Multicolor
- 45° ports
- Professional design, plastic cover with plastic cover that generates an enhanced appearance.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801,TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- 110 type IDC color coded wiring blocks for easy cable lacing.
- UL Verified.



Order Information:

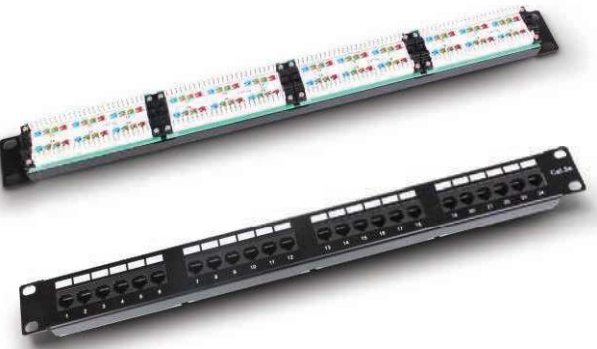
Item No.	Description
NTPPM455E24U	19",1U, 24ports
NTPPM455E48U	19",1U, 48ports

NTPPPCB5E24U

Cat.5e PCB patch panel.

Features

- PCB unitary type.
- The internal PCB is directly screwed on to the iron panel. The whole product is strong and stable without any looseness
- Professional design.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801,TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- UL Verified.



Order Information:

Item No.	Description
NTPPPCB5E24U	19", 2U, 24ports
NTPPPCB5E48U	19",2U, 48ports

STRUCTURED CABLING PATCH PANELS

NTPPK5E24U

Cat.5e Krone Type Patch Panel.

Features

- British type.
- Professional design, plastic cover with plastic cover that generates an enhanced appearance.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- Krone IDC.
- UL Verified.



Order Information:

Item No.	Description
NTPPK5E16U	19", 1U, 16 ports
NTPPK5E24U	19", 1U, 24 ports
NTPPK5E48U	19", 1U, 48 ports

NTPPC624U

EngineerPro® Cat.6 patch panel.

Features

- Professional design, plastic cover with plastic cover that generates an enhanced appearance.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- 110 type IDC color coded wiring blocks for easy cable lacing.
- UL Verified.



Order Information:

Item No.	Description
NTPPCE16U	19", 1U, 16 ports
NTPPC624U	19", 1U, 24 ports
NTPPC648U	19", 1U, 48 ports

STRUCTURED CABLING PATCH PANELS

NTPPK6E24U

EngineerPro® Cat.6e Krone Type Patch Panel.

Features

- British type.
- Professional design, plastic cover with plastic cover that generates an enhanced appearance.
- Printed port numbering.
- Clear plastic label holders.
- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post.
- Krone IDC.
- UL Verified.



Order Information:

Item No.	Description
NTPPK6E16U	19", 1U, 16 ports
NTPPK6E24U	19", 1U, 24 ports
NTPPK6E48U	19", 2U, 48 ports

NTPP6A24U

EngineerPro® Cat.6A patch panel.

Features

- Professional design, metal panel with hinged plastic door for dust protection.
- Printed port numbering.
- Loaded with EngineerPro® Cat.6A keystone jacks.
- Exclusive zigzag design for maximum alien crosstalk suppression.
- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for wires AWG22-26.
- IDC insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change
- 110 IDC.
- UL Verified.



Order Information:

Item No.	Description
NTPP6A24U	19", 1U, 24ports

STRUCTURED CABLING PATCH PANELS

NTRAP5E48U

Right angle Cat.5e patch panel.

Features

- Meet ISO/IEC 11801,TIA/EIA568B.
- 1U Space.
- Have connector & cable management, convenient for using High-quality guaranteed. UL Verified.



NTRAP6E48U

EngineerPro® Right angle Cat.6 patch panel.

Features

- Meet ISO/IEC 11801,TIA/EIA568B.
- 1U Space.
- Have connector & cable management, convenient for using High-quality guaranteed. UL Verified.



NTPPT5E24U

Pass-thru Cat.5e patch panel.

Features

- Matching 19" cabinet/framework.
- Install 24PCS Cat5e coupler. UL Verified.



NTPPT6E24U

Pass-thru Cat.6 patch panel.

Features

- Matching 19" cabinet/framework.
- Install 24PCS Cat6 coupler. UL Verified.



STRUCTURED CABLING PATCH PANELS

NTHDPP5E24U

High density Cat.5e patch panel.

Features

- Meet ISO/IEC 11801,TIA/EIA568B.
- 0.5U Space.
- Have connector & cable management, convenient for using High-quality guaranteed. UL Verified.

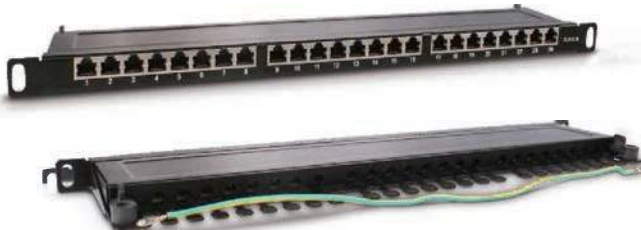


NTHDPP6E24U

High density Cat.6 patch panel.

Features

- Meet ISO/IEC 11801,TIA/EIA568B.
- 0.5U Space.
- Have connector & cable management, convenient for using High-quality guaranteed. UL Verified.



NTPP5E24USH

Cat.5e patch panel.

Features

- 24 Ports CAT5E Full Shielded Type Patch Panel (FTP).
- Own patent products.
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength:When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



The special design of screws for fixing cover and bottom in the middle of panel facilitates the subsequent construction and maintenance. ---- If screws are on sides of panel, after fixing cables, it is not convenient to remove screws.

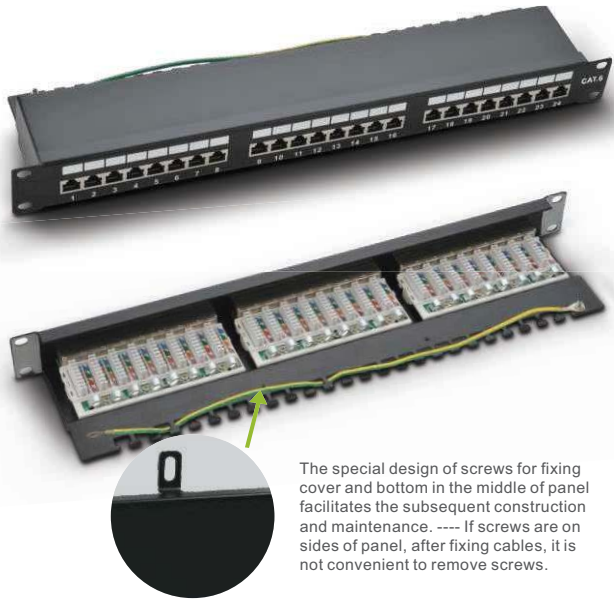
STRUCTURED CABLING PATCH PANELS

NTPP5E24SH

Cat.5e patch panel.

Features

- 24 Ports CAT5E Full Shielded Type Patch Panel (FTP).
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



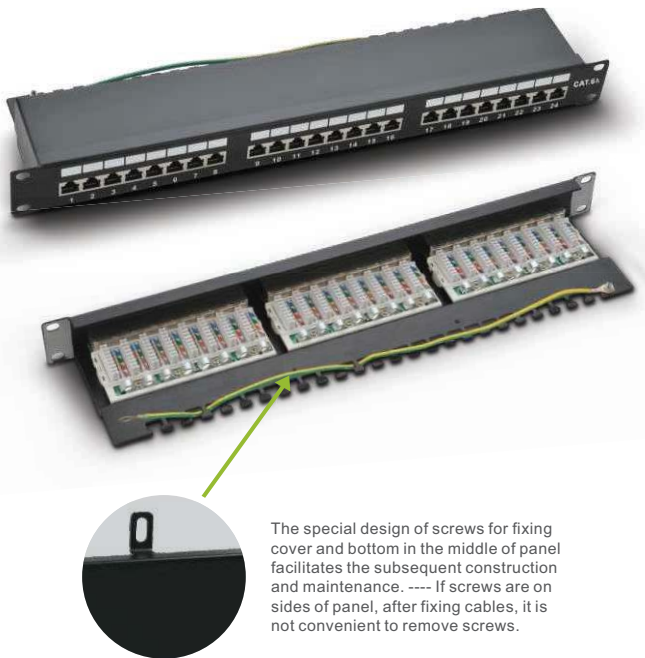
The special design of screws for fixing cover and bottom in the middle of panel facilitates the subsequent construction and maintenance. ---- If screws are on sides of panel, after fixing cables, it is not convenient to remove screws.

NTPP6A24USH

CAT 6A shielded patch panel.

Features

- 24 Ports CAT6A Full Shielded Type Patch Panel(FTP).
- Own patent products.
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



The special design of screws for fixing cover and bottom in the middle of panel facilitates the subsequent construction and maintenance. ---- If screws are on sides of panel, after fixing cables, it is not convenient to remove screws.

STRUCTURED CABLING PATCH PANELS

NTPP6E24USH

EngineerPro® CAT 6 shielded patch panel.

Features

- 24 Ports CAT6 Full Shielded Type Patch Panel(FTP).
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



NTPP6E24USH-B

EngineerPro® CAT 6 shielded patch panel.

Features

- 24 ports cat6 full shielded type patch panel(FTP).
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



The special design of screws for fixing cover and bottom in the middle of panel facilitates the subsequent construction and maintenance. ---- If screws are on sides of panel, after fixing cables, it is not convenient to remove screws.

STRUCTURED CABLING PATCH PANELS

NTPP6A24USH-B

EngineerPro® CAT 6A shielded patch panel.

Features

- 24 ports cat6a full shielded type patch panel (FTP).
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



NTPP5E12U

Cat.5e patch panel.



Features

- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for Installing at the narrow work area.
- Panel make of metal, others plastic.
- 110 IDC.
- 12 port patch panel. UL Verified.

NTPP5E12U-B

Cat.5e patch panel.



Features

- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for Installing at the narrow work area.
- Plastic face plate.
- DUAL IDC.
- 12 port patch panel. UL Verified.

NTPP6E12U

Cat.6 patch panel.



Features

- Meet ISO/IEC 11801, TIA/EIA568C.
- Fit for Installing at the narrow work area.
- Plastic face plate.
- DUAL IDC.
- 12 port patch panel. UL Verified.

STRUCTURED CABLING PATCH PANELS

NTPP5E08USH

Cat5e shielded 8 ports patch panel.



NTPP6E08USH

EngineerPro® Cat6 shielded 8 ports patch panel.



NTPP6A08USH

EngineerPro® Cat6A shielded 8 ports patch panel.



NTPP5E12USH

Shielded 12 ports patch panel.



NTPP6E12USH

EngineerPro® Shielded 12 ports patch panel.



NTPP5E12USH-B

Cat5e shielded 12 ports patch panel (with boot).



NTPP6E12USH-B

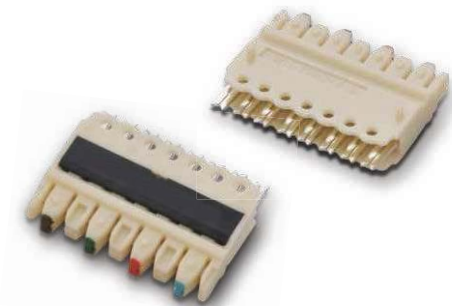
EngineerPro® Cat6 shielded 12 ports patch panel (with boot).



STRUCTURED CABLING PATCH PANELS

NTC4CLIP

Nitrote I110 Type connecting blocks.

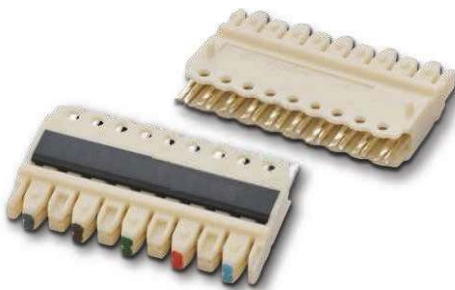


Features

- Meet ISO/IEC 11801 and TIA/EIA568C.
- Suitable for Cat.5e and Lan cable.
- Connect at least 500 times.
- 4 pairs connecting block.

NTC5CLIP

Nitrotel 110 Type connecting blocks.

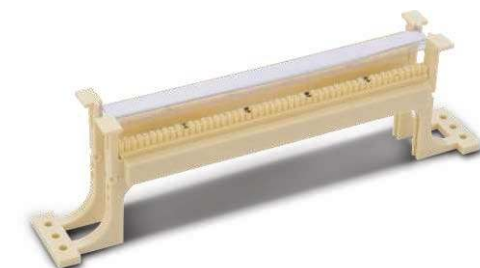


Features

- Meet ISO/IEC 11801 and TIA/EIA568C.
- Suitable for Cat.5e and Lan cable.
- Connect at least 500 times.
- 5 pairs connecting block.

NTWBB50PRKIT

Nitrotel 50 pairs termination kits.

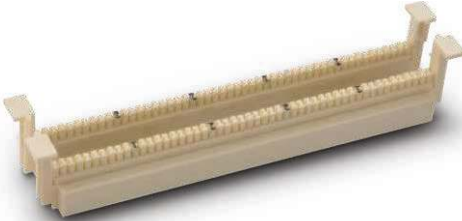


Features

- 110 wiring block with legs.
- Designed for narrow work areas.

NTRMB50PR

Nitrotel 50 pairs termination kits.



Features

- 110 wiring block with legs.
- For installation on standard 19"racks or cabinets.

STRUCTURED CABLING PATCH PANELS

NTWB100PRKIT

Nitrotel100 pairs termination kits, With legs.



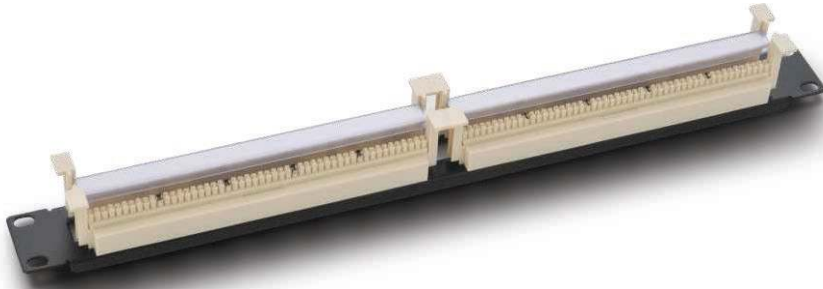
NTRMB100PR

Nitrotel100 pairs termination kits, Without leg.



NTPPWB100PRKI

Nitrotel rack type 100 pairs termination kits.



STRUCTURED CABLING PATCH PANELS

NTVPP25U

Voice patch panel.

Features

- 25 Ports Voice Patch Panel (8P4C).
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.

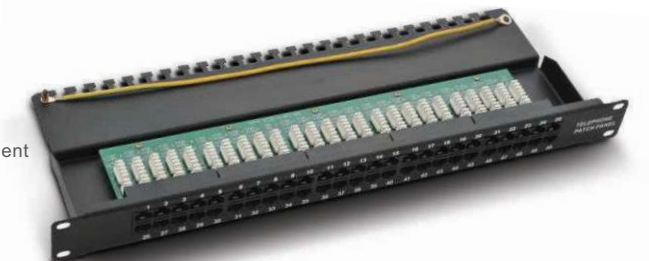


NTVPP50U

Voice patch panel.

Features

- 50 Ports Voice Patch Panel(8P4C).
- Have connector & cable management, convenient for using High-quality guaranteed.
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



NTVPP25U-B

Voice patch panel.

Features

- 25 Ports Voice Patch Panel(8P4C).
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



STRUCTURED CABLING PATCH PANELS

NTVPP50U-B

Voice patch panel.

Features

- 50 Ports Voice Patch Panel(8P4C).
- Fit for wires AWG22-26.
- Plug insertion life 200 cycles.
- Plug insertion life 750 cycles Min.
- Dielectric strength: When applied AC 750V or DC 1000V 1 minute between adjacent terminal NO change.
- Material: Using PC/ABS for cover, PC for module, phosphor bronze for IDC wire post. UL Verified.



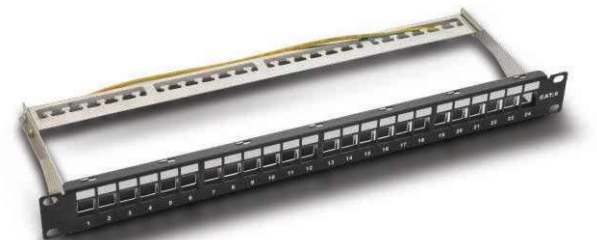
NTBP24UP

24 ports blank patch panel.



NTBP24UPSH

24 ports shielded blank patch panel.



NT-SBP-1U

1U blank panel.



NT-SBP-2U

2U blank panel.



STRUCTURED CABLING CABLE MANAGEMENT

NTCM5RIU

Nitrotel 1u cable manager 5 rings.



NTCMFIU

Nitrotel 2u horizontal cable manager.



NTCMF2U

Nitrotel 2u horizontal cable manager



NTCMFB2U

Nitrotel horizontal double side cable organizer



NTBRPIU

Nitrotel Brush panel.



STRUCTURED CABLING CABLE MANAGEMENT

NTCMFCV7ISS

Nitrotel 71' single-side vertical Cable manager



NTCMFCV7ISS

Nitrotel 71' double-side vertical Cable manager



NTCMF35DS

Nitrotel vertical cable manager



STRUCTURED CABLING MODULAR PLUG

NTMP5E

Cat.5e Modular Plug 8P8C
3U-50U Unshielded.



NTMB5ESH

Cat.5e Modular Plug 8P8C
3U-50U Shielded.



NTMP6P4C

Telephone plug 6P4C
3U Unshielded.



NTMP6E

Cat.6 Modular Plug 8P8C
3U-50U Unshielded.



NTMP6ESH

Cat.6 Modular Plug 8P8C
3U-50U shielded.



NTMP6A

Cat.6A Modular Plug 8P8C
3U-50U unshielded.



NTMPE6ASH

Cat. 6A Modular Plug 8P8C
3U-50U shielded.



NTFTPC6A0A

N-Plug Cat 6A UTP
Field Termination Plug



NTFTPC6E0A

N-Plug Cat 6E UTP
Field Termination Plug



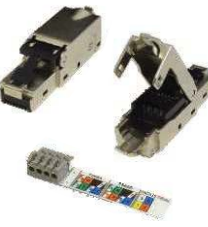
NTFTPC6A0A-SH

N-Plug Cat 6A STP
Field Termination Plug



NTFTPC6A0A-SH

N-Plug Cat 6E STP
Field Termination Plug



STRAIN RELIEF MODULAR BOOT

Order information (Part Number)
NTCB

Jacket Color

BU	RD	WH	YL
GY	BK	GN	PR

Special orders available upon request.



STRUCTURED CABLING NETWORK TOOLS

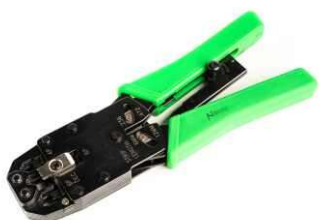
NTPDI10K

IDC impact tool.



NTCT300

Dual Modular Crimping Tool
8P+6P
6P+4P.



NTKJEZTT

EZ Termination Tool - For 180°



NTCS60I

Plastic 100 tool w/stripper.



NTCS3I2

Coaxial cable stripper.



NTCS50I

Coaxial cable stripper.



NTPD603

Impact tool with 5 pairs.



NTNCT-468

Fit for Rj11, RJ12 .



STRUCTURED CABLING

NETWORK TOOLS

Core Alignment Fiber Fusion Splicer Machine



Description:

The Nitrotel NTFFSM-800 fusion splicer sets the standard for core alignment fusion splicing by incorporating a user-friendly interface with enhanced features to provide a very rugged and reliable fusion splicer in the market today .

The NTFFSM-800 splices a fiber in 7 seconds and heats a 60 mm splice sleeve in 30 seconds. It adopts high-speed image processing technology and special precision positioning technology, automatically finish the whole process of fiber fusion in 8 seconds typically. Digital 3.5 inch TFT LCD monitor displays all steps of fiber fusion clear at a glance.

Widely used for SM and MM Quartz Fiber.
Ideal tools for construction and maintenance of fiber and cable in both field and laboratory applications.

Support Chinese, English, Korean, Spanish, Russian, Deutsche and Portuguese languages.

Features:

- Rugged construction providing high resistance to impacts, dust and moisture.
- Core to core fiber alignment system (PAS)
- 7 seconds splicing time, 30 seconds tube-heat time
- Turn-over display screen to use conveniently
- Simultaneous X and Y views (380X magnification)
- Inner light to set fiber at night
- Auto check end face of fiber Auto calculate splicing loss
- Three power supply modes
- Screen menu for simple operation
- Auto calibration parameters

STRUCTURED CABLING

NETWORK TOOLS

Core Alignment Fiber Fusion Splicer Machine

Parameter	VALUE
Model	NTFFSM-800
Applications	SM(ITU-T G.652), MM(ITU-T G.651), DS(ITU-T G.653), NZ-DS(ITU-TG.655), EDF
Cladding Diameter	80 to 150µm
Coating Diameter	100 to 1000µm
Fiber Cleaved Length	8~22mm (standard)
Splicing Mode	Auto & Manual
Average Fusion Loss	0.02dB(SM), 0.01dB(MM), 0.04dB(DS), 0.04dB(NZDS)
Return Loss	≥60dB
Working Environment	-25C° ~ +50C° (Temperature), 0 ~95% RH (non-condensing), 0~5000m (altitude)
Storage Environment	-40C° ~ +80C° (Temperature), 0 ~ 95%RH (no condensation)
Protection Sleeve Length	20mm, 40mm, 60mm
Tension Test	2.0N(standard)
Language	Chinese, English, Korean, Spanish, Russian, Deutsche, Portuguese
Data Interface	USB interface
Storage Capacity	8000 results
Power Supply	DC input: 12V voltage Internal battery: 12V voltage, 10Ah, up to 300 times of continuous splices and heats
Dimensions and Weight	120 (W)×122(H)×130(D)mm, 2.0Kg (including internal battery)

Standard Package:

Fusion Splicer	NTFFSM-800	Cooling tray	NTFFSM-800-04
Internal battery	NTFFSM-800-01	Manual instruction	NTFFSM-800-05
Charger	NTFFSM-800-02	Carry case	NTFFSM-800-06
Spare electrodes	NTFFSM-800-03	Fiber stripper	CFS-2
Fiber cleaver	NTFFSM-105		



STRUCTURED CABLING OPTICAL FIBER & XPON

Outdoor Optical Cable	089 — 099
Indoor Optical Cable	100 — 102
FTTH Drop Cables	103 — 105
Fiber Optical Accessories	106 — 110
XPON	111 — 118

STRUCTURED CABLING

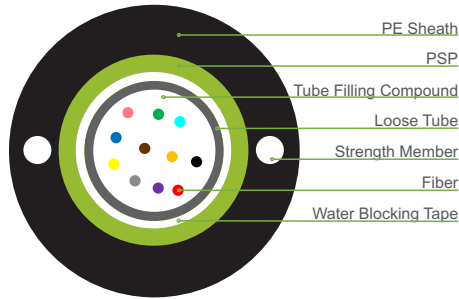
OPTICAL FIBER

Unitube Light-armored Cable (GYXTW)



Introduction

In the Nitrotel GYXTW cable, single-mode/multimode fibers are positioned in the loose tube, which is made of high modulus plastic materials and filled with filling compound. A PSP is longitudinally applied around the loose tube, and water-blocking materials are distributed into interstices between them to guarantee the compactness and longitudinal water blocking performance. Two parallel steel wires are placed at both sides of the cable core while a HDPE sheath is extruded over it.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube Diameter mm	Sheath Thickness mm	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYXTW-2~12Xn	2~12	2.0/3.0	2.6	10.2	105	600/1500	1000/3000
NT-GYXTW-2~12Xn	2~12	2.0/3.0	3.0	11.0	132	1000/3000	1000/3000
NT-GYXTW-2~24Xn	2~24	2.8/4.0	2.6	12.2	142	600/1500	1000/3000
NT-GYXTW-2~24Xn	2~24	2.8/4.0	3.0	13.0	170	1000/3000	1000/3000

Note:
1. Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2. The color arrangement of fiber and tube is specified in color identification table.

Characteristics

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Special compact structure to avoid the loose tube shrinkage
- Excellent crush resistance and flexibility
- PSP improves the moisture penetration resistance performance
- Two parallel steel wires could guarantee the tensile strength
- Excellent ultraviolet prevention with PE sheath
- Small diameter, light weight and installation friendliness
- Application: Duct/Aerial/Direct buried

Temperature requirement	Operation	-40℃~+70℃
	Installation	-10℃~+70℃
	Storage/transportation	-40℃~+70℃
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	10 times of outer diameter
	Dynamic	20 times of outer diameter

STRUCTURED CABLING

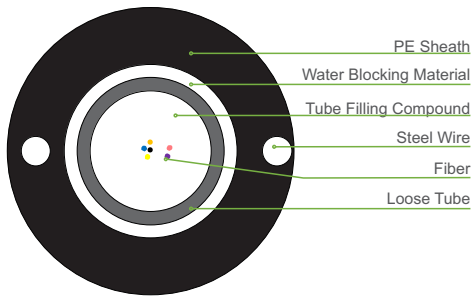
OPTICAL FIBER

Unitube Non-armored Cable (GYXTY)



Introduction

In the Nitrotel GYXTY cable, single-mode/multimode fibers are positioned in the loose tube, which is made of high modulus plastic materials and filled with filling compound. The loose tube is covered with water blocking materials to guarantee the compactness and longitudinal water-blocking performance. Two parallel steel wires are placed at both sides of the cable core while a HDPE sheath is extruded over it.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube Diameter mm	Sheath Thickness mm	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYXTY-2~12Xn	2~12	2.0/3.0	2.6	8.5	72	600/1500	1000/3000
NT-GYXTY-2~12Xn	2~12	2.0/3.0	3.0	9.5	98	1000/3000	1000/3000
NT-GYXTY-2~24Xn	2~24	2.8/4.0	2.6	9.5	86	600/1500	1000/3000
NT-GYXTY-2~24Xn	2~24	2.8/4.0	3.0	10.2	111	1000/3000	1000/3000

Note:
1. Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2. The color arrangement of fiber and tube is specified in color identification table.

Characteristics

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length.
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube.
- Special compact structure to avoid the loose tube shrinkage
- Excellent crush resistance and flexibility
- Two parallel steel wires could guarantee the tensile strength
- Excellent ultraviolet prevention with PE sheath
- Small diameter, light weight and installation friendliness
- Application: Duct/Aerial

Temperature requirement	Operation	-40℃~+70℃
	Installation	-10℃~+70℃
	Storage/transportation	-40℃~+70℃
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	10 times of outer diameter
	Dynamic	20 times of outer diameter

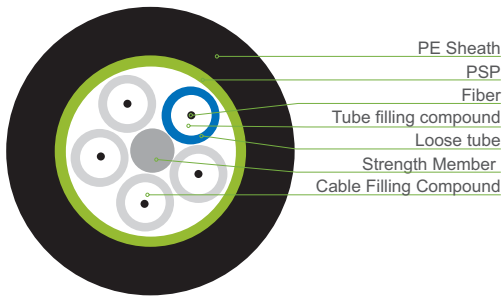
STRUCTURED CABLING

OPTICAL FIBER

Stranded Loose Tube Cable with Steel Tape (GYTS)



Fig 1



Introduction

In the Nitrotel GYTS cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fiber count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core, and the PSP is longitudinally applied around the cable core before a HDPE sheath is extruded over it.

Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYTS-2~30Xn	2~30	5	6	9.8	108	600/1500	300/1000
NT-GYTS-32~36Xn	32~36	6	6	10.4	129	600/1500	300/1000
NT-GYTS-38~60Xn	38~60	5	12	10.6	132	600/1500	300/1000
NT-GYTS-62~72Xn	62~72	6	12	12.1	161	600/1500	300/1000
NT-GYTS-74~96Xn	74~96	8	12	13.6	198	600/1500	300/1000
NT-GYTS-98~120Xn	98~120	10	12	15.4	260	600/1500	300/1000
NT-GYTS-122~144Xn	122~144	12	12	17.2	286	600/1500	300/1000

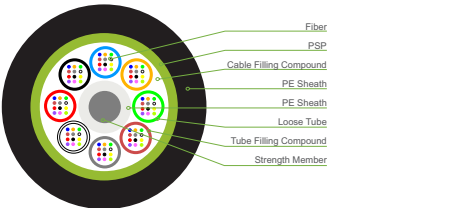
Note:
1.Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fiber and tube is specified in color identification table.
3.The normal PE sheath thickness is 1.8mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent crush resistance and flexibility
- Excellent ultraviolet prevention with PE sheath
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - PSP moisture barrier
- Application: Duct/Aeria

Temperature requirement	Operation	-40℃~+70℃
	Installation	-10℃~+70℃
	Storage/transportation	-40℃~+70℃
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	10 times of outer diameter
	Dynamic	20 times of outer diameter

Fig 2: High Fiber Count Cable



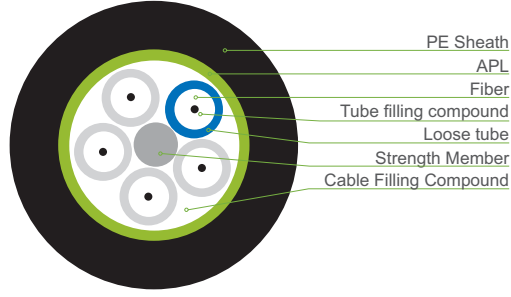
STRUCTURED CABLING

OPTICAL FIBER

Stranded Loose Tube Cable with Aluminum Tape (GYTA)



Fig 1



Introduction

In the Nitrotel GYTA cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core, and the Aluminum Polyethylene Laminate (APL) is longitudinally applied around the cable core before a HDPE sheath is extruded over it.

Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYTA-2~30Xn	2~30	5	6	9.2	85	600/1500	300/1000
NT-GYTA-32~36Xn	32~36	6	6	10.2	107	600/1500	300/1000
NT-GYTA-38~60Xn	38~60	5	12	10.4	110	600/1500	300/1000
NT-GYTA-62~72Xn	62~72	6	12	11.4	130	600/1500	300/1000
NT-GYTA-74~96Xn	74~96	8	12	13.6	165	600/1500	300/1000
NT-GYTA-98~120Xn	98~120	10	12	14.8	195	600/2000	300/1000
NT-GYTA-122~144Xn	122~144	12	12	16.4	236	600/2500	300/1000
NT-GYTA-146~216Xn	146~216	18	12	16.4	232	600/2500	300/1000
NT-GYTA-218~288Xn	218~288	24	12	20.0	300	1000/3000	300/1000

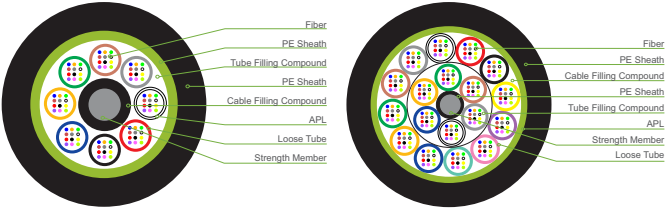
Note:
1.Suffix Xn denotes fibre type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fibre and tube is specified in color identification table.
3.The normal PE sheath thickness is 1.8mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent ultraviolet prevention with PE sheath
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - APL moisture barrier
- Application: Duct/Aeria

Temperature requirement	Operation	-40℃~+70℃
	Installation	-10℃~+70℃
	Storage/transportation	-40℃~+70℃
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	10 times of outer diameter
	Dynamic	20 times of outer diameter

Fig 2 and 3: High Fiber Count Cable



STRUCTURED CABLING

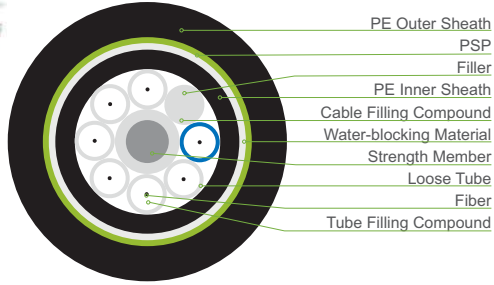
OPTICAL FIBER

Stranded Loose Tube Cable with Steel Tape (Double Sheaths) (GYTY53)



Introduction

In the Nitrotel GYTY53 cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core. The cable core is covered with a PE inner sheath, and the PSP is longitudinally applied around the cable core before a HDPE outer sheath is extruded over it.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

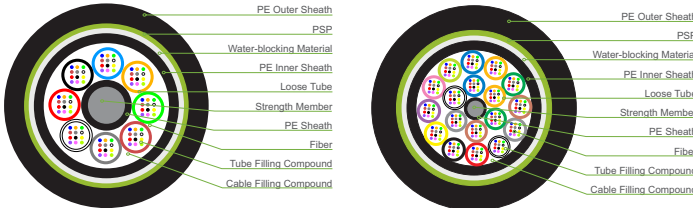
Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYTY53-2~36Xn	2~36	6	6	12.6	184	1000/3000	1000/3000
NT-GYTY53-38~72Xn	38~72	6	12	14.0	216	1000/3000	1000/3000
NT-GYTY53-74~96Xn	74~96	8	12	15.7	260	1000/3000	1000/3000
NT-GYTY53-98~120Xn	98~120	10	12	17.4	301	1000/3000	1000/3000
NT-GYTY53-122~144Xn	122~144	12	12	19.0	354	1000/3000	1000/3000
NT-GYTY53-146~216Xn	146~216	18	12	19.0	350	1000/3000	1000/3000

Note:
1.Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fiber and tube is specified in color identification table.
3.The normal PE sheath thickness is 1.0mm, and PE outer sheath thickness is 2.0mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent crush resistance and flexibility
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - PSP moisture barrier
 - Water-blocking material
- Application: Duct/Aeria

Fig 2 and 3: High Fiber Count Cable



STRUCTURED CABLING

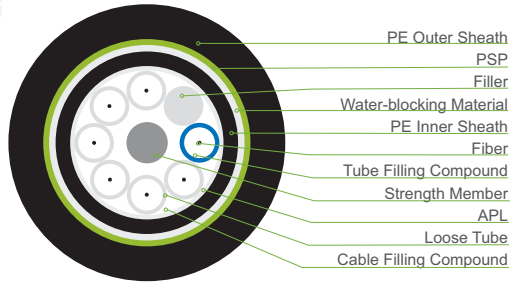
OPTICAL FIBER

Stranded Loose Tube Cable with Aluminum Tape and Steel Tape (Double Sheaths) (GYTA53)



Introduction

In the Nitrotel GYTA53 cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water blocking materials are distributed into interstices of the cable core. An APL is longitudinally applied around the cable core, then covered with a PE inner sheath; and the PSP is longitudinally applied over the PE inner sheath before a HDPE outer sheath is extruded over it.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYTA53-2~36Xn	2~36	6	6	13.0	199	1000/3000	1000/3000
NT-GYTA53-38~72Xn	38~72	6	12	15.0	244	1000/3000	1000/3000
NT-GYTA53-74~96Xn	74~96	8	12	16.8	290	1000/3000	1000/3000
NT-GYTA53-98~120Xn	98~120	10	12	17.8	333	1000/3000	1000/3000
NT-GYTA53-122~144Xn	122~144	12	12	20	389	1000/3000	1000/3000
NT-GYTA53-146~216Xn	146~216	18	12	20	385	1000/3000	1000/3000

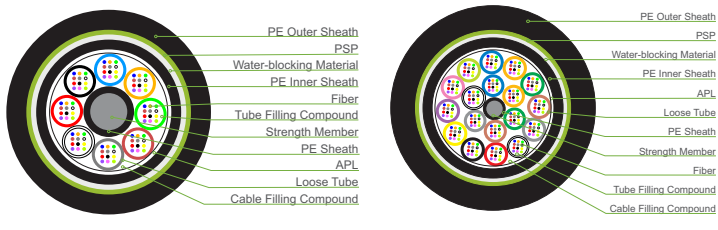
Note:
1.Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fiber and tube is specified in color identification table.
3.The normal PE sheath thickness is 1.0mm, and PE outer sheath thickness is 2.0mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent crush resistance and flexibility
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - APL moisture barrier
 - PSP moisture barrier
 - Water-blocking material
- Application: Duct/Aerial/Direct buried

Temperature requirement	Operation	-40℃~+70℃
	Installation	-10℃~+70℃
	Storage/transportation	-40℃~+70℃
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	12.5 times of outer diameter
	Dynamic	25 times of outer diameter

Fig 2 and 3: High Fiber Count Cable



STRUCTURED CABLING

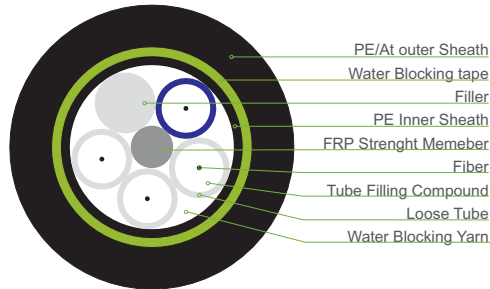
OPTICAL FIBER

All Dielectric Self-supporting Aerial Cable (ADSS)



Introduction

In the Nitrotel ADSS cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core . The cable core is covered with a PE inner sheath, and the PSP is longitudinally applied around the cable core before a HDPE outer sheath is extruded over it.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Characteristics of Optical Cables

Ref. Outer Diameter (mm)	Ref. Weight (kg/km)		Rec. Daily Max. Working Tension (kN)	Tensile Strength (kN)	Break Strength (kN)	Strength Member CSA (mm²)	Modulus of Elasticity (kN/mm)	Operation, Storing, Transport Temperature (°C)	Heat Expansion Coefficient (x10⁻⁶/K)	Suitable Span (NESC Standard m)			
	PE Sheath	AT Sheath								A	B	C	D
12.5	125	136	1.5	4	10	4.6	7.6	-40~+60	1.8	160	100	140	100
13.0	132	142	2.25	6	15	7.6	8.3	-40~+60	1.5	230	150	200	150
13.3	137	148	3.0	8	20	10.35	9.45	-40~+60	1.3	300	200	290	200
13.6	145	156	3.6	10	24	13.8	10.8	-40~+60	1.2	370	250	350	250
13.8	147	159	4.5	12	30	14.3	11.8	-40~+60	1.0	420	280	400	280
14.5	164	177	5.4	15	36	18.4	13.6	-40~+60	0.9	480	320	460	320
14.9	171	185	6.75	18	45	22.0	16.4	-40~+60	0.6	570	380	550	380
15.1	179	193	7.95	22	53	26.4	18.0	-40~+60	0.3	670	460	650	460
15.5	190	204	9.0	26	60	32.2	19.1	-40~+60	0.1	750	530	750	510
15.6	194	208	10.5	28	70	33.0	19.6	-40~+60	0.1	800	560	800	560
16.3	211	226	12.75	34	85	40.0	20.1	-40~+60	0.1	880	650	880	650
16.8	226	242	15.45	41	103	48.0	24.0	-40~+60	-0.4	1000	750	1000	760
17.2	236	253	16.2	45	108	51.0	25.1	-40~+60	-0.5	1180	800	1100	830
17.9	249	266	18.0	50	120	58.8	26.1	-40~+60	-0.8	1180	880	1180	900

Note:
1. Only a part of ADSS cables are listed in the table. ADSS cables with other spans can be inquired from Nitrotel directly.
2. Specifications in the table are listed under condition that there is no height difference between two suspension points while the installation sag is 1%.
3. Fibre count is 2 to 60.
4. Specially designed cable structure is available on request.

Characteristic

- Easy installation
- Excellent corrosion resistance, due to AT sheath
- Light weight and small diameter
- Large span with the largest span of over 1200m
- Accurate excess fibre length and stranding pitch to guarantee the good tensile and temperature performance
- The life expectancy is over 30 years
- The careful design of aramid yarn quantity and stranding process can satisfy the demand on various spans.
- For overhead power lines under 110kV, PE outer sheath is applied.
- For power lines equal to or over 110kV, Anti-Tracking outer sheath is applied.
- Application: Aerial

Applicable climate conditions of cable can be divide into four categories

Climate Type	Wind Speed (m/s)	Ice (mm)	Extra Load (N/m)
A	25	0	0.7
B	35	0	0.7
C	10	5	2.5
D	10	10	4.4

STRUCTURED CABLING

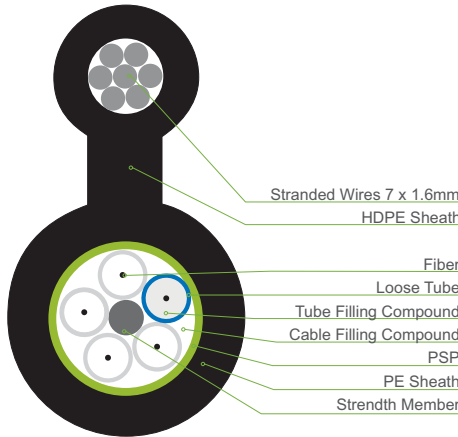
OPTICAL FIBER

Figure-8 Cable with Steel Tape (GYTC8S)



Introduction

In the Nitrotel GYTC8S cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic, while the loose tubes strand together around metallic central strength member into a compact and circular cable core, and the water-blocking compound is distributed into interstices of it. After a PSP is applied around the cable core, this part of cable accompanied with the stranded wires as the supporting part are completed with a HDPE sheath to be a figure-8 structure. This kind of cable is specifically used for self supporting aerial installation.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Cable Diameter mm	Cable Type Weight kg/km	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N/100 mm
NTGYTC8S-2~30Xn	2~30	9.6 x 21	270	3000/8000	300/1000
NTGYTC8S-32~36Xn	32~36	10.2 x 21.6	285	3000/8000	300/1000
NTGYTC8S-38~60Xn	38~60	11.6 x 23	320	3000/8000	300/1000
NTGYTC8S-62~72Xn	62~72	12 x 23.4	340	3000/8000	300/1000
NTGYTC8S-74~96Xn	74~96	14.2 x 25.6	390	3000/8000	300/1000
NTGYTC8S-98~120Xn	98~120	16.0 x 27.4	430	3000/8000	300/1000
NTGYTC8S-122~144Xn	122~144	17.7 x 29.1	480	3000/8000	300/1000

Note:
1. Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2. The color arrangement of fiber and tube is specified in color identification table.
3. The normal PE sheath thickness is 1.8mm.
4. The installation span should not be more than 100m and the installation sag should not be less than 0.5%. Figure-8 cable with other span and standard 0.5% sag is available on request.
5. Dimensions of the figure-8 cable have close relationship with moulds and production process, the above-mentioned dimensions are subject to actual dimensions

Characteristic

- Excellent mechanical and temperature performance
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - PSP moisture barrier
- Application: Duct/Aerial

STRUCTURED CABLING

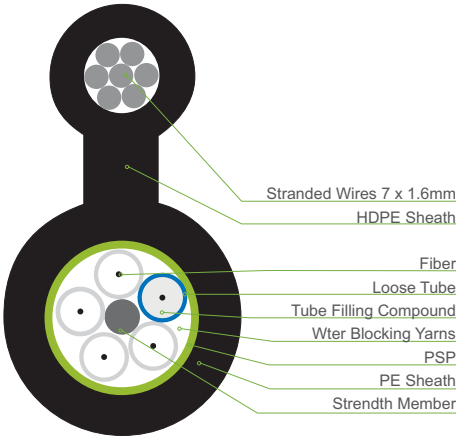
OPTICAL FIBER

Dry Core Figure-8 Cable with Steel Tape (GYTF8S)



Introduction

In the Nitrotel GYTF8S cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic, while the loose tubes strand together around metallic central strength member into a compact and circular cable core, and the water-blocking yarns are distributed into interstices of it. After a PSP is applied around the cable core, this part of cable accompanied with the stranded wires as the supporting part are completed with a HDPE sheath to be a figure-8 structure. This kind of cable is specifically used for self supporting aerial installation.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Fiber color in each tube starts from No. 1 Blue.											

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.											

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Cable Diameter mm	Cable Type Weight kg/km	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N/100 mm
NTGYTC8S-2~30Xn	2~30	9.6 x 21	270	3000/8000	300/1000
NTGYTC8S-32~36Xn	32~36	10.2 x 21.6	285	3000/8000	300/1000
NTGYTC8S-38~60Xn	38~60	11.6 x 23	320	3000/8000	300/1000
NTGYTC8S-62~72Xn	62~72	12 x 23.4	340	3000/8000	300/1000
NTGYTC8S-74~96Xn	74~96	14.2 x 25.6	390	3000/8000	300/1000
NTGYTC8S-98~120Xn	98~120	16.0 x 27.4	430	3000/8000	300/1000
NTGYTC8S-122~144Xn	122~144	17.7 x 29.1	480	3000/8000	300/1000

Note:

- Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
- The color arrangement of fiber and tube is specified in color identification table.
- The normal PE sheath thickness is 1.8mm.
- The installation span should not be more than 100m and the installation sag should not be less than 0.5%. Figure-8 cable with other span and standard 0.5% sag is available on request.
- Dimensions of the figure-8 cable have close relationship with moulds and production process, the above-mentioned dimensions are subject to actual dimensions

Characteristic

- Excellent mechanical and temperature performance
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - PSP moisture barrier
- Application: Duct/Aerial

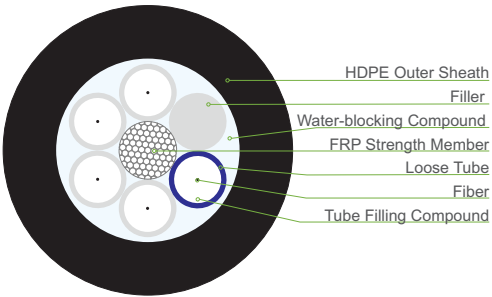
STRUCTURED CABLING

OPTICAL FIBER

Stranded Loose Tube Cable with Non-metallic Central Strength Member (GYFTY)

Introduction

In the GYFTY cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around non-metallic central strength member (FRP) into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking compound is distributed into the interstices of the cable core. Then the cable is completed with a HDPE sheath.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Fiber color in each tube starts from No. 1 Blue.											

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.											

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYFY-2~36Xn	2~36	6	6	10.6	92	400/1000	300/1000
NT-GYFY-38~60Xn	38~60	5	12	11.2	102	400/1000	300/1000
NT-GYFY-2~42Xn	2~42	7	6	11.2	103	600/1500	300/1000
NT-GYFY-44~72Xn	44~72	6	12	12.2	114	600/1500	300/1000
NT-GYFY-2~48Xn	2~48	8	6	12.2	125	1000/3000	300/1000
NT-GYFY-50~96Xn	50~96	8	12	13.6	160	1000/3000	300/1000
NT-GYFY-98~120Xn	98~120	10	12	14.6	200	1000/3000	300/1000
NT-GYFY-122~144Xn	122~144	12	12	16.8	235	1000/3000	300/1000
NT-GYFY-146~192Xn	146~192	8 12	6 12	16.8	220	1000/3000	300/1000

Note:

- Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
- The color arrangement of fiber and tube is specified in color identification table.
- The normal PE sheath thickness is 2.0mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent ultraviolet prevention with PE sheath
- Excellent crush resistance and flexibility
- The following measures are taken to ensure the water blocking performance of the cable:
 - FRP used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
- Application: Duct/Aerial

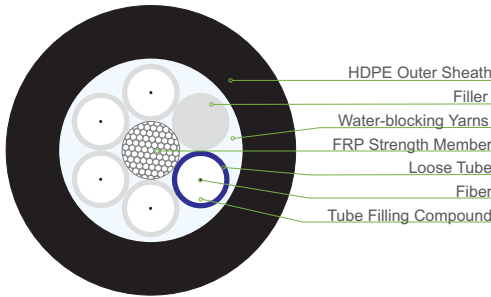
STRUCTURED CABLING

OPTICAL FIBER

Dry Core Stranded Loose Tube Cable with Non-metallic Central Strength Member (GYFY)

Introduction

In the GYFY cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around non-metallic central strength member (FRP) into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE).The water-blocking yarns are distributed into the interstices of the cable core. Then the cable is completed with a HDPE sheath.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYFY-2~36Xn	2~36	6	6	10.6	92	400/1000	300/1000
NT-GYFY-38~60Xn	38~60	5	12	11.2	102	400/1000	300/1000
NT-GYFY-2~42Xn	2~42	7	6	11.2	103	600/1500	300/1000
NT-GYFY-44~72Xn	44~72	6	12	12.2	114	600/1500	300/1000
NT-GYFY-2~48Xn	2~48	8	6	12.2	125	1000/3000	300/1000
NT-GYFY-50~96Xn	50~96	8	12	13.6	160	1000/3000	300/1000
NT-GYFY-98~120Xn	98~120	10	12	14.6	200	1000/3000	300/1000
NT-GYFY-122~144Xn	122~144	12	12	16.8	235	1000/3000	300/1000
NT-GYFY-146~192Xn	146~192	8	6	16.8	220	1000/3000	300/1000
		12	12				

Note:
1.Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fiber and tube is specified in color identification table.
3.The normal PE sheath thickness is 2.0mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent ultraviolet prevention with PE sheath
- Excellent crush resistance and flexibility
- The following measures are taken to ensure the water blocking performance of the cable:
 - FRP used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
- Application: Duct/Aerial

STRUCTURED CABLING

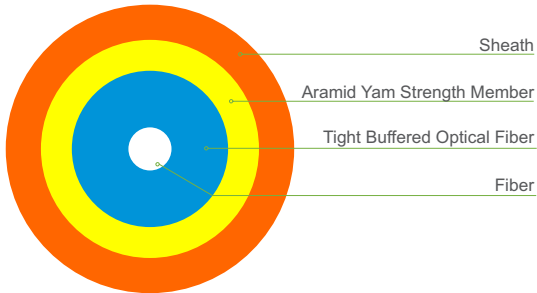
OPTICAL FIBER

Single Core Tight Wrapped Indoor Optical Cable (GJFJV)



Introduction

The Nitrotel simplex cable (GJFJV) uses single 900µm or 600µm tight buffered fibre as optical transmission medium, covered with aramid yarn as strength member, then extruded with a PVC sheath. Other sheath materials, like LSZH and TPU, are available on request.



Order Information and Characteristics of Optical Cables

Cable Type	Cable Size (mm)	Weight (kg/km)	Tensile Strength Long/ShortTerm (N)	Crush Resistance Long/ShortTerm (N/100 mm)	Bending Radius Static/Dynamic (mm)	Storage, operating Temperature (°C)
NT-GYJFJV-1Xn	1.6± 0.2	2.5	60/100	100/500	30/60	-20~+60
NT-GYJFJV-1Xn	1.8± 0.2	3.5	60/100	100/500	30/60	-20~+60
NT-GYJFJV-1Xn	2.8± 0.2	6.0	60/100	100.500	30/60	-20~+60

Note: Xn denotes fiber type.

Characteristic

- Excellent strippability with tight buffered fiber
- Excellent flame retardant properties
- High tensile strength due to aramid strength member
- Excellent corrosion resistant, waterproof, flame retardant and environmental- friendly properties of the outer sheath

Application

- Fiber jumper or pigtail
- Indoor riser level and plenum level cabling
- Interconnections between instruments and communication equipments

Standards

Comply with standard YD/T1258.2-2003 and IEC 60794-2-10/11

Delivery Length

Standard Reel Length: 2000m; Other lengths available on request

STRUCTURED CABLING

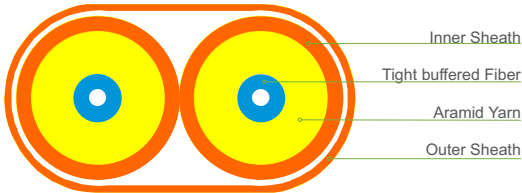
OPTICAL FIBER

Duplex Flat Cable (GJFJBV)



Introduction

The duplex flat cable uses two 900µm or 600µm tight buffered fibers as optical transmission medium, covered with aramid yarn as strength member while each fibre extruded with a PVC inner sheath, then extruded with a flat PVC outer sheath. Other sheath materials, like LSZH and TPU, are available on request.



Order Information and Characteristics of Optical Cables

Cable Type	Cable Size (mm)	Weight (kg/km)	Tensile Strength Long/ShortTerm (N)	Crush Resistance Long/ShortTerm (N/100 mm)	Bending Radius Static/Dynamic (mm)	Storage, operating Temperature (°C)
NT-GJFJBV-2Xn	(3.0± 0.2) x (5.4± 0.2)	13.8	100/200	100/500	30/60	-20~+60
NT-GJFJBV-2Xn	(3.8± 0.2) x (7.0± 0.2)	20	100/200	100/500	40/80	-20~+60

Note: Xn denotes fiber type.

Characteristics

- Excellent strippability with tight buffered fiber
- Excellent flame retardant properties
- High tensile strength due to aramid strength member
- Compact arrangement of fiber due to flat structure
- Excellent corrosion resistant, waterproof, flame retardant and environmental- friendly properties of the outer sheath

Application

- Duplex fiber flexible connection jumper or pigtail
- Indoor riser level and plenum level cabling
- Instruments communication equipments interconnection

Standards

Comply with standard YD/T1258.2-2003 and IEC 60794-2-10/11

Delivery Length

Standard Reel Length: 2000m; Other lengths available on request

STRUCTURED CABLING

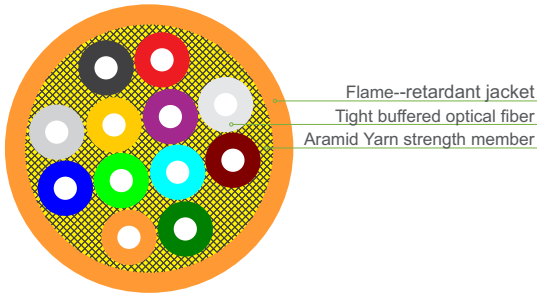
OPTICAL FIBER

Indoor Distribution Cable



Introduction

In the Nitrotel Indoor Distribution Cable 900µm Buffered Fibers are surrounded by aramid yarn as strength members and a PVC/LSZH flame-retardant jacket.



Cable Dimensions and Constructions

Items	Descriptions	
Optical Fiber	Fiber count	4/8/12/24
Tight buffer fibers	Material	LSZH/PVC
	Diameter	0.85±0.05mm
Strength Member	Material	Aramid yarn
Sheath	Material	LSZH/PVC
	Thickness	0.8mm±0.15mm (≤12 Core) 1.0mm± 0.10mm (>12core)
	Color	Yellow/Orange/Aqua
Cable Diameter		5.0 ± 0.2 mm (4 Core)
		6.0 ± 0.2 mm (8 Core)
		6.5 ± 0.2 mm (12 Core)
		7.5 ± 0.2 mm (18 Core)
		8.5 ± 0.2 mm (24 Core)
Cable Weight		Approx 16.2 kg/km
		Approx 27.0 kg/km
		Approx 38.0 kg/km
		Approx 45.0 kg/km
		Approx 65.0 kg/km
Tight buffer Color Code	blue/orange/green/brown/grey/white/red/black/ yellow/purple/pink/aqua	
Colors of 2 nd group of 12 tight buffers	With black tracer blue/orange/green/brown/grey/white/red/ yellow/purple/pink/aqua	
	With white tracer black	

Mechanical and Environmental Characteristics

Items	Descriptions	
Tensile Strength	IEC 60794 -2-E1	short-term 600N
		long-term 200N
		short-term 1000N (>12core)
		long-term 500N (>12core)
Crush Resistance	IEC 60794 -2-E3	short-term 1000N
		long-term 300N

NT-GJPFJ -		
V PVC Jacket		
H LSZH Flame Retardant Jacket		
Fiber Count		
Item	Fiber Type	
S	G652D	
B6A1	G657A1	
B6A2	G657A2	
B4	G655	
OM1	OM1	
OM2	OM2	
OM3	OM3	
OM4	OM4	

Packing

Wooden Drums Protection

Marking

Cable Marker every Meter by

- Project name or Project owner
- Year of manufacture
- Tape of Cable
- Number of fiber
- Cable length
-

STRUCTURED CABLING

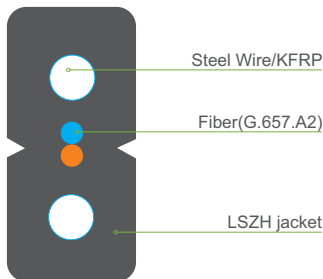
OPTICAL FIBER

Bow-type Drop Optical Cable (GJXFH/GJXH)



Introduction

This bow-type drop cable consists of 2 color coded optical fibers and offers an ideal solution for the smaller fiber counts that are needed in the final sections of an optical network. Two parallel FRP/Steel Wire strength members protect the optical fibers. The cable is completed with a LSZH jacket.



Order Information and Characteristics of Optical Cables

Cable Type	Cable Size (mm)	Weight (kg/km)	Tensile Strength Long/ShortTerm (N)	Crush Resistance Long/ShortTerm (N/100 mm)	Bending Radius Static/Dynamic (mm)	Storage, operating Temperature (°C)
NT-GJXFH-2B6a2	(2.0±0.1)×(3.0±0.1)	7.5	40/80	500/1000	15/30	-20~+60
NT-GJXH-2B6a2	(2.0±0.1)×(3.0±0.1)	10.5	100/200	1000/2200	15/30	-20~+60

Characteristics

- Simple structure, light weight, high tensile strength.
- Novel groove design, easily strip and splice, simplified installation and maintenance.
- Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety.

G657 fiber information

- Mode field diameter (1310nm): 8.6µm±9.5µm.
- Cladding diameter: 125µm±0.7µm.
- Coating diameter: 245µm±7µm.
- Cut off wavelength of cabled fiber (λ_{cc}): ≤1260µm.
- Attenuation at 1310nm: ≤0.35dB/km.
- Attenuation at 1550nm: ≤0.21dB/km.
- Bending loss at 1550nm (100 turns, 30mm radius):≤0.05dB.
- Dispersion in the range 1288 to 1339nm: ≤3.5ps/(nm ·km).
- Dispersion at 1550nm: ≤18ps/(nm ·km).
- Dispersion slope at zero dispersion wavelength: ≤0.092ps/(nm2 km).

Standards

Comply with standard YD/T1997-2009

Delivery Length

Standard Reel Length: 2000m; Other lengths available on request.

STRUCTURED CABLING

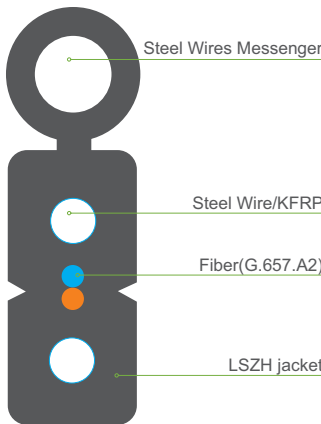
OPTICAL FIBER

Self-supporting Bow-type Drop Optical Cable (GJYXFH/GJYXH)



Introduction

The typical GJYXFCH/GJYXCH self-supporting bow-type drop optical cable consists of GJXFH/GJXH cable and an additional strength member (steel wire or stranded steel wire).



Order Information and Characteristics of Optical Cables

Cable Type	Cable Size (mm)	Weight (kg/km)	Tensile Strength Long/ShortTerm (N)	Crush Resistance Long/ShortTerm (N/100 mm)	Bending Radius Static/Dynamic (mm)	Storage, operating Temperature (°C)
NT-GJYXFH-2B6a2	(2.0±0.1)×(5.2±0.3)	18.9	300/600	1000/2200	15/30	-20~+60
NT-GJYXH-2B6a2	(2.0±0.1)×(5.2±0.3)	21	300/600	1000/2200	15/30	-20~+60

Characteristics

- Simple structure, light weight, high tensile strength.
- Novel groove design, easily strip and splice, simplified installation and maintenance.
- Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety.

G657 fiber information

- Mode field diameter (1310nm): 8.6µm±9.5µm.
- Cladding diameter: 125µm±0.7µm.
- Coating diameter: 245µm±7µm.
- Cut off wavelength of cabled fiber (λ_{cc}): ≤1260µm.
- Attenuation at 1310nm: ≤0.35dB/km.
- Attenuation at 1550nm: ≤0.21dB/km.
- Bending loss at 1550nm (100 turns, 30mm radius):≤0.05dB.
- Dispersion in the range 1288 to 1339nm: ≤3.5ps/(nm ·km).
- Dispersion at 1550nm: ≤18ps/(nm ·km).
- Dispersion slope at zero dispersion wavelength: ≤0.092ps/(nm2 km).

Standards

Comply with standard YD/T1997-2009

Delivery Length

Standard Reel Length: 2000m; Other lengths available on request.

STRUCTURED CABLING

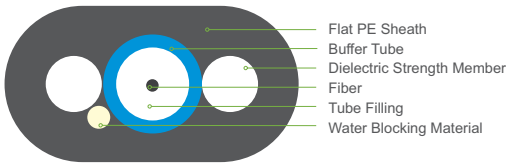
OPTICAL FIBER

Flat Self-supporting Unitube Cable (GYFXBY)



Introduction

Nitrotel FTTH flat aerial access unitube cable GYFXBY is suitable for FTTH aerial access application. This cable has simple construction and stable performance. It is an all-dielectric self-supporting cable which prevents thunder access.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Size and weight of fiber optic cable with 1-12 fibers

FRP Diameter (mm)	Cable width W (mm)	Cable height H (mm)	Weight (kg/km)
Φ1.6	8.1±0.3	4.6±0.3	35

Mechanical character of fiber optic cable

1. Maximum short term installation tensile strength	1400 (N)
2. Maximum long term working tensile strength	400 (N)
3. Maximum short term crush resistance	5000 (N/100mm)
4. Maximum long term crush resistance	1000 (N/100mm)
5. Dynamic bending radius	30H
6. Static bending radius	15H

Environmental characteristics of fiber optic cable

Storage/Transportation/use temperature	-40OC-+70 OC
Installation temperature	-30 OC-+60 OC
Attenuation change	≤0.15 (dB/km) @1550nm ≤0.15 (dB/km) @1310nm

Characteristics

- Easy-access unitube design
- High fiber protection and signal integrity
- Non-Metallic strength member eliminates bonding and grounding requirement
- Span distances up to 60m.
- Application: FTTH aerial access

STRUCTURED CABLING

OPTIC FIBER PATCH CORDS

Patch Cords

- Fiber patch cords provide connections from the work area to the wall outlet or from active equipment to the patch panel.
- Cords are available as duplex or simplex 62.5/125,50/125, MM or SM fibers. we offer ST,SC,FC or LC connectors.
- All patch cords are factory polished and 100% optically tested for superior performance.

Introduction

- Insertion loss: ≤0.3dB
- Return loss: Pc≥40dB APC≥60dB
- Repeatability: ≤0.3dB
- Compatibility: ≤0.3dB
- Insertion times: >1000
- Working temperature: -25°C~70°C.

Patch Cords

NTFJ A C B D E F G H

- AB : LC.SC.FC. ST.MTRJ.E2000.MPO/MTP.
CD: Blank:PC
U:UPC
A: APC.
E : S: Singlemode
Blank:OM1
O:OM2
Q:OM3
LO:OM4
F : 01.02.03.04...M
G: SX:Duplex
DX:Duplex
H : Blank:OD2.0mm
T: OD3.0mm

Pigtail

NTFP A C E F G H

- A : LC.SC.FC. ST.MTRJ.E2000.MPO/MTP.
C: Blank:PC
U:UPC
A: APC.
E : : Singlemode
Blank:OM1
O:OM2
Q:OM3
LO:OM4
F : 01.02.03.04...M
G: SX:Duplex
DX:Duplex



STRUCTURED CABLING

OPTICAL FIBER ADAPTER

Adapter

FC/PC Split-body



FC/APC One-piece



FC/PC Big D



FC/PC Small D



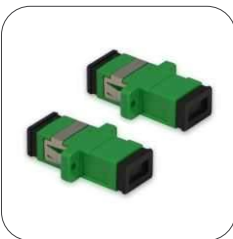
ST/PC



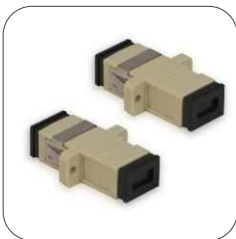
SC/PC SM



SC/APC Split--body



SC/PC MM



SC/PC Duplex SM



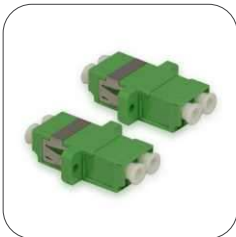
SC/APC Duplex SM



SC/PC Duplex MM



LC/APC Duplex SM



LC/PC Duplex SM



LC/PC Duplex MM



FC-SC/PC



FC-SC/PC with ferrule



Features

- Insertion loss: ≤0.2dB; Repeatability: ≤0.1dB; Insertion times: >1000.
- Working temperature: -25°C~70°C; Store temperature: -40°C~85°C.

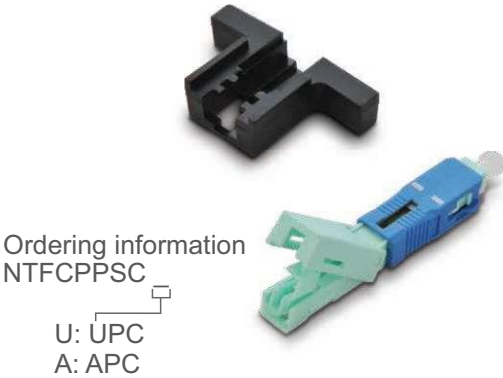
STRUCTURED CABLING

OPTIC FIBER DISTRIBUTION BOX

SC fast connector

Order Information

Item	Performance
Insertion loss	Average ≤0.2dB, MAX ≤0.4dB
Return loss	PC: ≥40dB, APC: ≥55dB
One-time Assembly Rate	≥97%
Assembly Repeatability	More than 5 times
Average Assembly Time	≤3 minutes
Life-time	≥30years
Tensile Strength	≥30N (2x3 Bow-type drop cable)
Operation Temperature	-40~+75°C



Ordering information
NTFCPPSC
U: UPC
A: APC

Mechanical Splice

Order Information

Item	Technical Parameters
Applicable for	Φ 0.25 mm & Φ 0.90 mm Fiber
Optical fiber diameter	125μm (652 & 657)
Tight buffer diameter (μm)	250μm
Fiber mode	Single & multi mode
Operation time	About 10s(no fiber cut)
Average Insert loss	≤0.15dB(1310nm & 1550nm)
Return loss	≤-40dB
Fastening strength of naked fiber	>5 N
Fastening strength of naked fiber holder	>8 N
Using temperature	-40~+75°C
Repeatability(10 times)	Δ IL ≤ 0.2dB Δ RL ≤ 5dB



Shelf optical cable terminal box

Optical termination box has the following features

- The splice of optical cable or fiber can be finished individually in the terminal box.
- It may inlet and outlet not only from optical cable to optical cable but also from optical cable to pigtail.
- The capacity of terminal box may vary from 8 cores.
- There is reliable optical cable fixing and ground protection device and sealing device.

Order Information

PART Number	Description
NTTB01-08-SC	8 ports SC adapter shelf optical cable terminal box
NTTB02-08-CS	8 ports SC duplex adapter shelf optical cable terminal box
NTTB01-08-ST	8 ports ST adapter shelf optical cable terminal box



STRUCTURED CABLING

OPTIC FIBER DISTRIBUTION BOX

19" cabinet optic fiber distribution box

Product description:

- It can be mounted on 19" cabinet, optic splicing tray in it,
- Drawer design, made of armor plate of high quality.

Order Information

PART Number	Description
NTFPPSC24PSX	24 Port SC Simplex Adaptors Optic Fiber Distribution Box
NTFPPSC12PSX	12 Port SC Duplex Adaptors Optic Fiber Distribution Box
NTFPPST24PSX	24 Port ST Simplex Adaptors Optic Fiber Distribution Box



19" cabinet optic fiber distribution box

Product description:

- It can be mounted on 19" cabinet, optic splicing tray in it,
- Drawer design, made of armor plate of high quality.
- Removable Fiber Adapter Panels
- Hinged acrylic front door for a higher dust protection.

Order Information

PART Number	Description
NTFDB24P	ODF 1RU 24 Port SC Duplex Adapter Panels
NTFDB48P	ODF 1RU 48 Port SC Duplex Adapter Panels
NTFDB96P	ODF 1RU 96 Port SC Duplex Adapter Panels

*Other Fiber Adapter Panels available upon request.



19" cabinet optic fiber distribution box

Product description:

- It can be mounted on 19" cabinet, optic splicing tray in it.
- Designed for the installation of MPO fiber modular cassettes.

Order Information

PART Number	Description
NTFPPMPOLC	MPO-LC Type Patch Panel



STRUCTURED CABLING

OPTIC FIBER DISTRIBUTION BOX

Dome Type Splice Enclosures

Product description:

- The casing of high strength insulation material has excellent mechanical properties.
- Perfect sealing measures.
- This product can be re-opened after sealing, replacement of sealing materials can be reused after.

Application

- Overhead installation.
- Pipe Installation.
- Direct buried installation.

Features

- Dimension(MM):Φ85X 330
- Weight(Kg):1.5
- Cable diameter(MM):Φ7-Φ19
- Cable entry ports:two ports in and two ports out
- Max Capacity of Fiber Splice:6 (single)
- Max Capacity of Splice Tray:2
- Max Capacity:12 (single)
- Structure of cable entry port:heat-shrinkable sealing structure
- Sealing structure:silicon gum material.



In-line Splice Enclosures

Product description:

- The casing of high strength insulation material has excellent mechanical properties.
- Perfect sealing measures.
- This product can be re-opened after sealing, replacement of sealing materials can be reused after.

Application

- Overhead installation.
- Pipe Installation.

Features

- Dimension (MM):390X 180 X 88.
- Weight (Kg):4.2.
- Cable diameter (MM):Φ5-Φ14.
- Cable entry ports:Four ports in and Four ports out.
- Max Capacity of Fiber Splice:12 (single).
- Max Capacity of Splice Tray:4.
- Max Capacity:48 (single).
- Structure of cable entry port:heat-shrinkable sealing structure.
- Sealing structure:silicon gum material.



STRUCTURED CABLING

EPON

8 Ports Cassette EPON OLT

Introduction

As standardized EPON device with 1RU case NTFE3208P provides a cost-effective solution for triple-play services delivery in distributed rural residential areas with powerful routing and switching capabilities, NTFE3208P is comprised of 8 EPON ports and 8 uplink ports which whole device supports up to 512 ONU at splitting rate 1:64, the NTFE3208P is designed for growing bandwidth demand to assist FTTX project reducing construction cost.

Features

- Easy to install due to 1RU case design
- 32Gbps switching capacity
- 9.5Mpps throughput
- 8*PON ports, 8*GE uplink ports(combo)
- Power redundancy(Double AC/DC, AC&DC)
- Multifunctional with L2, Security, VLAN QOS etc



Specification

Servies port	8 EPON ports	EPON	• IEEE 802.3ah EPON
Uplink port	8*100/1000Base-X (SFP) +8*10/100/1000Base-T adaptive(RJ45)+1*(2*10GE)(optional)		• International CTC GEAPON standard
MGMT Port 1	10/100Base-TX (RJ45)		• Access 64 terminals for singlefiber PON
Switching capacity	32Gbps		• ONU identifier authentication :MAC/LOID/Hybrid
Console Port	1 Console (RS232)	L2	• Standard OAM and extended OAM
VLAN	4K		• MAC Black Hole, Port MAC Limit • Port/subnet/Mac-based VLAN • Port-based QinQ and Selective QinQ • LACP
MAC	8k	Service features	• Standard and extended ACL • SA/DA Classification • Support packet filtration of L2~L7
Throughput	9.5MPPS(IPV4/IPV6)	Reliability	• EAPS and GERP (recover-time<50ms) • Loopback-detection • STP/RSTP/MSTP • LACP (recover-time <10ms)
Power supply	AC: Input 100~240V, 47~63Hz DC: Input -36V~-72V(Power redundancy)	Multicast	• IGMPv1/v2/v3 • IGMP snooping • IGMP filtering and throttling • Multicast VLAN Registration (MVR)
Power consumption	<=46W	Manage ment	• Serial / Telnet (CLI) • SNMPv1/v2/v3 • DHCP server, relay agent with option82 • DHCPv4/DHCPv6 snooping/ip-source-guard • Remote Monitoring (RMON) • Syslog, Port Mirroring
Dimension	442mm×315mm×44mm	Security	• Secure Shell (SSH) v1/v2 • 802.1x RADIUS, TACACS+ authentication • SNMP v3 encrypted management
Operating environment	Working temperature : -15°C~55°C Storage temperature : -40°C~70°C Relative humidity : 10%~90%, no condensing	QOS	• SP, WRR and SP+WRR • CAR(Committed Access Rate),Traffic Shaping and flow statistics • 802.1P, DSCP priority and Remark • Rate-limit, flow monitor and two-speed tri-color

STRUCTURED CABLING

EPON

1GE Ports EPON ONT

Introduction

As an Single Family Unit NTFEN-01GS is designed for EPON ONU device with plastic shell.

NTFEN-01GS EPON ONU satisfies IEEE 802.3u standard and supports 1000M access to the user side.

It is a low cost and high speed ONU access device installing in the indoor and corridor with the deployment of FTTH, FTTO, FTTB.

NTFEN-01GS transmits data, voice and digital video by flexible PON network structure. It provides uplink speed rate of 1Gb/s, downlink speed rate of 1Gb/s to share high speed bandwidth for users.



Features

- 10/100/1000Base-T Ethernet interface
- Satisfy IEEE 802.3U standard, compatible with IEEE802.3ah
- EPON uplink port
- 4K VLAN, 64 MAC table
- Plastic shell for indoor installation

Specification

Uplink port	1 EPON port (SC/APC, SFF)	EPON	• Compatible with CTC specification, Compatible with 802.3ah • 4 queue and SP scheduling • Support Dying Gasp
Service Port	10/100/1000Base-T Ethernet interface	L2	• Port auto negotiation • MDI/MDIX • 802.3x flow control • Per port ingress/egress rate limit • Storm control • MAC limit per port, Port isolation, STP
Power Consumption	< 4W	VLAN	• 802.1Q vlan • SVL • Vlan ID:1-4094 • CTC vlan
Power Supply	Additional power adaptor: 100-240VAC/50-60Hz input,12VDC/1A output	MAC	• 64 MAC table • Static MAC address entry • Black list • Configurable MAC aging time
Dimension	120mm×90mm×30mm(W x D x H)	Multicast	• IGMP snooping • 64multicast entry • CTC controllable snooping
Operation Environment	Temperature:-10°C~ 50°C. Humidity: 5% ~75% relative humidity	OAM	• CLI • Telnet • Web • Firmware Remote & Local upgrade

STRUCTURED CABLING

GPON

GPON Cassette OLT

Introduction

Nitrotel NTFG3304P/NTFG3308P provides 4/8 GPON ports and 8 GE based-T+8GE SFP uplink ports to meet for the increasing demand on high-bandwidth from end user, With the 1RU cassette design and redundant 2 slots making it to be flexible deployment and multifunctional.

- 1RU cassette
- 1+1 power supply redundancy
- 4*GPON Ports
- 8*GE SFP Ports
- 8*GE based-T ports
- 2*SFP+ 10GE Ports



NTFG3304P

- 1RU cassette
- 1+1 power supply redundancy
- 8*GPON Ports
- 8*GE SFP Ports
- 8*GE based-T ports
- 2*SFP+ 10GE Ports



NTFG3308P

Spec.	Model	NTFG3204P	NTFG3308P
PON chipsets		Broadcom	Broadcom
Switching capacity		102Gbps	102Gbps
Throughput rate		75.88Mpps	75.88Mpps
PON ports		4	8
Uplink ports		8*GE FX+8*GE TX 2*10GE SFP+	8*GE FX+8*GE TX 2*10GE SFP+
Console port		1	1
OoB manage ports		0	0

Spec.	Model	NTFG3204P	NTFG3308P
Size		440mm x 380mm x 44mm	440mm x 380mm x 44mm
Weight		≤3kg	≤3kg
Power supply		dual power supply (AC or DC) redundancy	dual power supply (AC or DC) redundancy
Service Voltage		AC: 100~240V DC:36V~75V	AC: 100~240V DC:36V~75V
Consumption		≤70W	≤80W
Work/storage temperature		-15℃~55℃ / -40℃~70℃	-15℃~55℃ / -40℃~70℃
Humidity		10%~90%	10%~90%

STRUCTURED CABLING

GPON

GPON Cassette OLT

Spec.	Model	NTFG3304P	NTFG3308P
Gem port Qty		4K/PON port	4K/PON port
TCONT Qty		1K/PON port	1K/PON port
Broadban of PON port		Uplink: 1.244G Downlink: 2.488G	Uplink: 1.244G Downlink: 2.488G
Distance of Transmit		20KM	20KM
ONU/ONT remote management		Support	Support
ONU/ONT remote update		Support	Support
Auto ONT ranging		Support	Support

Spec.	Model	NTFG3304P	NTFG3308P
MAC address entry		32K	32K
VLAN		4K	4K
VLAN manage		VLAN Swap / VLAN Remark / VLAN Translate / Stack VLAN	VLAN Swap / VLAN Remark / VLAN Translate / Stack VLAN
Spanning tree protocol		STP, RSTP, MSTP	STP, RSTP, MSTP
Link aggregation		Static state and LACP	Static state and LACP
Jumbo frame		9K	9K

Spec.	Model	NTFG3304P	NTFG3308P
Static Route		Support	Support
RIP		Support	Support
OSPF		Support	Support
VRRP		Support	Support

Spec.	Model	NTFG3304P	NTFG3308P
IGMP		V1 / V2 / V3	V1 / V2 / V3
IGMP Snooping		Support	Support
IGMP Proxy		Support	Support
Multicast Group		1K	1K
Multicast Protocol		PIM-SM / PIM-DM / PIM-SSM	PIM-SM / PIM-DM / PIM-SSM

STRUCTURED CABLING

GPON

GPON Cassette OLT

Spec.	Model	NTFG3304P	NTFG3308P
Flow dispatch		SP, WRR, SP+WRR	SP, WRR, SP+WRR
Queue		8*QUEUE / PORT	8*QUEUE / PORT
Traffic Shaping		Support	Support
Particular flow restrain		Support	Support
ACL		Support	Support

Spec.	Model	NTFG3304P	NTFG3308P
Stream Control		Broadcast, multicast and unknown unicast stream control	Broadcast, multicast and unknown unicast stream control
IP Source Guard		8*QUEUE / PORT	8*QUEUE / PORT
DoS Protection		Support	Support
SSH		Support	Support
IEE 802.1 X certificate		Support	Support

Spec.	Model	NTFG3304P	NTFG3308P
Serial / Telnet (CLI)		Support	Support
SNMP		V1 / V2 / V3	V1 / V2 / V3
DHCP		DHCP server, client, relay with option 82	DHCP server, client, relay with option 82
Sylog		Support	Support
LLDP		Support	Support
ARP Anti Spoofing		Support	Support
RMON		Support	Support

Summary

Comparing with Other OLT, the advantage of NITROTEL OLT as bellow:
NITROTEL OLT provide bigger switching capacity and throughput rate.
NITROTEL OLT provide 2*10GE extendible card.
NITROTEL OLT provide more MAC address entry.
NITROTEL OLT provide more impeccable multicast protocol.
NITROTEL OLT provide perfect flexible QoS features.
NITROTEL OLT provide Rich L2/L3 features.

STRUCTURED CABLING

GPON

1GE Ports GPON ONT

Introduction

As a Single Family Unit NTFGN-01GS is designed for GPON ONU device with plastic shell. NTFGN-01GS GPON ONU satisfies IEEE 802.3u standard and supports 1000M access to the user side.e. It is a low cost and high speed ONU access device installing in the indoor and corridor with the deployment of FTTH, FTTO, FTTB.

NTFGN-01GS transmits data, voice and digital video by flexible PON network structure. It provides uplink speed rate of 1.25Gb/s, downlink speed rate of 2.5Gb/s to share high speed bandwidth for user.



Features

10/100/1000Base-T Ethernet interface
Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, Compliant with standard OMCI definition, the G-97CU is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.
GPON uplink port, 4K VLAN, 64 MAC table, Plastic shell for indoor installation

Specification

Uplink port	1 GPON port (SC/APC, SFF)	GPON	• Compatible with ITU-T G.984 GPON standard, Compliant with ITU-T G.984.2 Amd1, Class B+ • 1.244Gbps Burst Mode Upstream Transmitter • 2.488 Gbps Downstream Receiver • 0.5dBm ~+5dBm launch power, -27dBm sensitivity, and -8dBm overload •US 1310nm, DS 1490nm
Service Port	10/100/1000Base-T Ethernet interface	Ethernet Interface	• 10/100/1000 Base-T interface with RJ-45 connectors • Ethernet port auto negotiation or manual configuration • MDI/MDIX automatically sense • Hardware priority queues on the downstream direction in support of CoS • 802.1D bridging and IP ToS/DSCP to 802.1p mapping • Class of Service based on UNI, VLAN-ID, 802.1p bit, and combination • Marking/remarking of 802.1p • IGMP v2/v3 snooping and IGMP snooping with proxy report • Broadcast/Multicast rate limiting
Weight	<1.4kg	Qos	• Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988 • Compliant to TR-069 • Provisioning all kinds of services including Ethernet, WLAN and VoIP, Copyright©2015 Nitrotel, All Right Reserved etc. by subset of TR-098 and TR-104 • Alarming and AVC report, performance monitoring • Remotely software image download over OMCI, as well as activation and rebooting • Hold two software sets with software image integrity checking and automatic rollback
Power Consumption	< 4W	VLAN	• 802.1Q VLAN • SVL • VLAN ID:1-4094 • VLAN stacking (Q-in-Q) and VLAN Translation • VLAN tagging/detagging per Ethernet port
Power Supply	Additional power adaptor: 100-240VAC/50-60Hz input,12VDC/1A output	MAC	• 1K MAC • Static MAC address entry • Black list • Configurable MAC aging time
Dimension	120mm×90mm×33mm(W x D x H)	Multicast	• IGMP snooping • 64multicast entry • CTC controllable snooping
Operation Environment	Temperature:-10℃~ 50℃ Humidity: 5% ~95% relative humidity	OAM	• CLI • Telnet • Standard compliant OMCI interface as defined by ITU-T G.984.4 and G.983.2 •Compliant to TR-069 • Firmware Remote & Local upgrade

STRUCTURED CABLING

GPON

4FE CATV + WIFI GPON ONU

Introduction

To deliver services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON RGU (Residential Gateway Unit) NTFGN-04S-TW incorporates interoperability, key customers' specific requirements and cost-efficiency.

Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, NTFGN-04S-TW supports the full services including voice, video, and high speed internet access service.

Compliant with standard OMCI definition NTFGN-04S-TW is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance



Features

ITU-T G.984.x compliant GPON ONT
1 GPON port, 4 10/100Base-T Ethernet interface, 1 RF Video interface and WIFI supported.
4K VLAN, 1K MAC table
Plastic shell for indoor installation
Powerful QOS abilities

Specification

Uplink port	1 GPON port (SC/PC, SFF)	GPON	- Compliant with ITU-T G.984 GPONvstandards - Multiple T-CONTs/GEM Ports per device - Activation with automatic discovered SN and password in conformance with ITU-T G.984.3 - FEC (Forward Error Correction) in both directions - Support Multicast GEM port and incidental broadcast GEM port
Service Port	14 10/1000Base-T Ethernet interface, 1 RF video interface. Support WIFI	Ethernet Interface	- Auto negotiation or manual configuration - IEEE802.1D and IEEE802.1Q bridging - VLAN tagging/detagging/QINQ/VLAN translation
Weight	<1.4kg	WLAN	- Compliant with IEEE 802.11 b/g/n - Multiple SSIDs , Bandwidth: 2.4GHz 64/128bit wireless encryption protocol (WEP)
Power Consumption	< 13W	QOS	- Port-based/802.1p/IP-TOS priority 4 Priorities control
Power Supply	Additional power adaptor: 100-240VAC/50-60Hz input, 12VDC/1A output	VLAN	802.1Q VLAN, Port-based VLAN - VID and PVID - Configure tag attribution based on port + VLAN
Dimension	228mm×176mm×41mm(WxDxH, without bracket) 228mm×176mm×49mm(WxDxH, with bracket)	MAC	1K MAC table
Operation Environment	Temperature:-10℃~ 50℃ Humidity: 5% ~75% relative humidity	Multicast	IGMP v2/v3 snooping and IGMP snooping with proxy report
Gateway	•WAN connection (PPPoE, DHCP, Static) • NAT/NAPT	OAM	- Standard compliant OMCI interface as defined by ITU-T G.984.4 and G.983.2 - Compliant to TR-069

STRUCTURED CABLING

GPON

4GE Triple-play services GPON ONU

Introduction

To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON RGU (Residential Gateway Unit) NTFGN-04GS-2VTW incorporates interoperability, key customers' specific requirements and cost-efficiency.

Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, NTFGN-04GS-2VTW supports the full Triple Play of services including voice, video, and high speed internet access service.

Compliant with standard OMCI definition NTFGN-04GS-2VTW is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance



Features

ITU-T G.984.x compliant GPON ONT
1 GPON port, 4 10/100/1000Base-T Ethernet interface, 2Pots interface
1 RF Video interface and WIFI supported.
4K VLAN, 1K MAC table
Plastic shell for indoor installation
Powerful QOS abilities

Specification

Uplink port	1 GPON port(SC/PC,SFF)		- Compliant with ITU-T G.984 GPON standards - Multiple T-CONTs/GEM Ports per device - Activation with automatic discovered SN and password in conformance with ITU-TG.984.3 - FEC (Forward Error Correction) in both directions - Support Multicast GEM port and incidental broadcast GEM port
Service Port	4 10/100/1000Base-TEthernet interface, 2 Pots interface,1 RF video interface. Support WIFI	Ethernet Interface	- Auto negotiation or manual configuration - IEEE802.1D and IEEE802.1Q bridging - VLANtagging/detagging/QINQ/VLAN translation
Weight	<1.4KG	WLAN	- Compliant with IEEE 802.11 b/g/n - Multiple SSIDs , Bandwidth: 2.4GHz 64/128bit wireless encryption protocol (WEP)
Power Consumption	< 13W	QOS	- Port-based/802.1p/IP-TOS priority 4 priorities control
Power Supply	Additional power adaptor: 100-240VAC/50-60Hz input, 12VDC/1A output	VLAN	802.1Q vlan, Port-based VLAN - VID and PVID - Configure tag attribution based on port+VLAN
Dimension	228mm x176mmx 41mm (Wx D x H, without bracket) 228mm x176mmx 49mm (W x D x H, with bracket)	MAC	1K MAC table
Operation Environment	Temperature:-10℃ ~ 55℃ Humidity: 5% ~75% relative humidity	Multicast	- Standard compliant OMCI interface as defined by ITU-T G.984.4 and G.983.2 - Compliant to TR-069



STRUCTURED CABLING CABINETS

Free Stand Pools & Cabinets	121 — 150
Wall Mount Cabinets	151 — 158
Fittings & Accessories	159 — 172

Gemini 4-post Rack

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1, DIN41494, PART7

Material

- SPCC Cold Rolled Steel:
- Column: 1.5mm, others: 2.0mm

Color

- RAL7035
- RAL9004

Loading Capacity

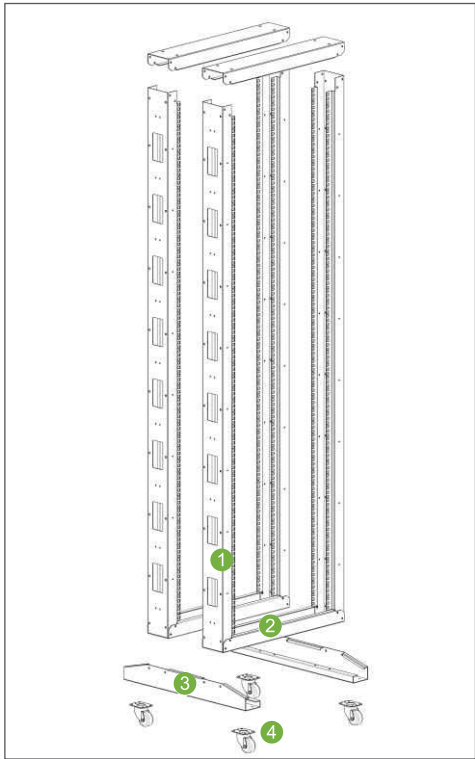
- Static loading: 250KG

Features

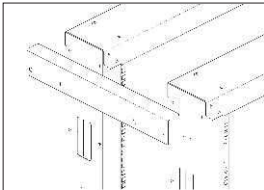
- Modular design, easily assemble and disassemble for low-cost delivery.
- Additional accessories available upon request.



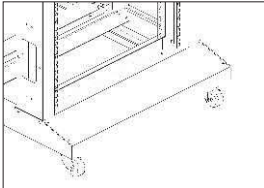
DATA RACK GEMINI 4-POST RACK



Additional accessories



L bracket (upon request)



Trim plate (upon request)



Fix Shelf (upon request)

Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Column	4	SPCC t1.5	Powder coated	----
2	Plinth	4	SPCC t1.5	Powder coated	----
3	Support Cross beam	2	SPCC t2.0	Powder coated	----
4	2 inch heavy duty castor	4			----
A	M6 screw& nuts	20	Steel	Color zinc	40pcs for over 33U
B	Trox tooling	1	Steel	Black	----

Specification

Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Volume (CBM)
NTFRG4P29USTBK	29	600	600	1422	1420*260*140
NTFRG4P33USTBK	33	600	600	1600	1600*260*140
NTFRG4P38USTBK	38	600	600	1822	1820*260*140
NTFRG4P42USTBK	42	600	600	2000	2000*260*140
NTFRG4P47USTBK	47	600	600	2222	2220*260*140

The packing information is for the flat pack and we suggest to use this flat pack to get significant cost saving.

Gemini 2-post Rack

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1, DIN41494, PART7

Material

- SPCC Cold Rolled Steel;
- Column: 1.5mm, others: 2.0mm

Color

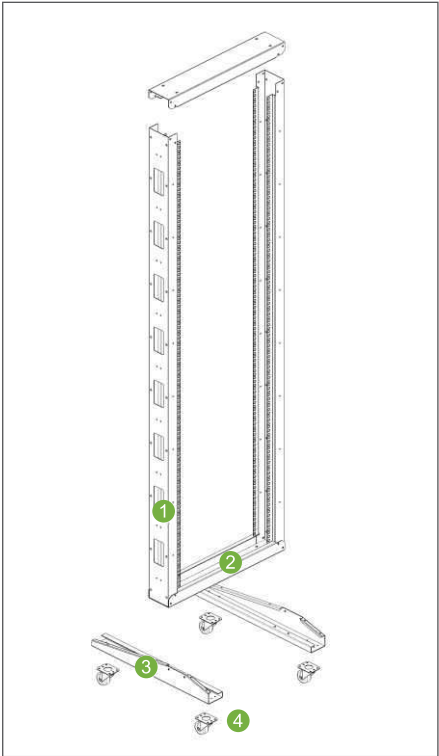
- RAL7035
- RAL9004

Loading Capacity

- Static loading: 150KG



DATA RACK GEMINI 2-POST RACK



Feature

- Modular design, easily assemble and disassemble for delivery, low-cost.
- Various optional accessories according to requirements(cable management slot, removable working panel, etc.).

Additional accessories upon request



Double Sided Shelf



Solid shelf



Horizontal cable management

Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Column	2	SPCC t1.5	Powder coated	----
2	Plinth	2	SPCC t2.0	Powder coated	----
3	Support Cross beam	2	SPCC t2.0	Powder coated	----
4	2" heavy duty castor	4			----
A	M6 screw& nuts	20	Steel	Color zinc	40pcs for over 33U
B	Trox tooling	1	Steel	Black	----

Specification

Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Volume (CBM)
NTFRG2P29USTBK	29	600	600	1422	1420*260*140
NTFRG2P33USTBK	33	600	600	1600	1600*260*140
NTFRG2P38USTBK	38	600	600	1822	1820*260*140
NTFRG2P42USTBK	42	600	600	2000	2000*260*140
NTFRG2P47USTBK	47	600	600	2222	2220*260*140

Orion Cabinets



Standard

- Comply with ANSI/EIA RS-310-D、IEC60297-2、DIN41494;PART1;DIN41494;PART7.

Material

- SPCC Cold Rolled Steel;
- 19" rails: 2.0mm;
- Casters tray:2.0mm; others:1.2mm.

Color

- VE: RAL7035.
- VE: RAL7021.

Loading Capacity

- Static loading:1300KG.

CABINET ORION SERVER CABINETS



Feature

- Packaging: Orion Cabinets could be shipped in disassembled packing, saving transportation and storage cost.
- New appearance design :Side door: split into 2 parts, lockable with square locks.
Front and rear door: pluggable front door and rear doors, with external hinges.
Casters: built-in installation design.
- Frame: duplex profile frames with patent, could be connected by 8 pieces of screws.
- Front and rear doors: "two points" locking design making doors and frames closed tighter, turning angle up to 180 degrees.
- Cable entries on top and bottom: sliding and adjustable cable entries on top and bottom, edges of cable entries are with the design to prevent wires from scratching.
- Fan unit: installed from top outside of cabinet, easy to install and maintain.
- Mounting rails: installation positions of mounting rails could be adjusted quickly. Dedicated channel alignment reserved in internal of cabinets.
- Cabinet structure: patented structure.
- Maximum loading capacity: 1300kg.



■ 19" mounting angle with scale enables users to precisely locate profile.



■ 19" zinc coated profile with scale.



■ Multi-function cable manger is available in the rear.



■ Safty Warning label.



■ Cable Entrence in the bottom is ajustable.



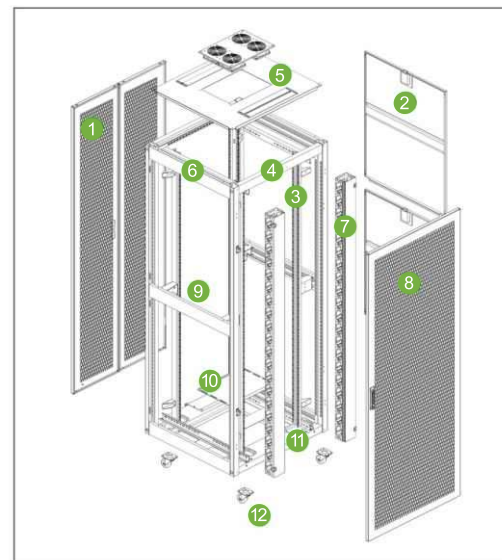
■ Cable manager with cover is available for 800mm width cabinet .

CABINET

ORION SERVER CABINETS

Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Rear door	1	----	----	See front&rear door type
2	Side panel	4	SPCC t1.2	Powder coated	
3	19" rails	4	T2.0	zinc-plated	
4	Front beam	2	SPCC t1.5	Powder coated	
5	Top cover	1	SPCC t1.2	Powder coated	
6	Side frame	2	SPCC t1.2	Powder coated	
7	Cable management slot	2	SPCC t1.0	Powder coated	Only used for 800 width cabinet
8	Front door	1	----	----	See front&rear door type
9	Mounting spacer	4	T2.0	zinc-plated	Only used for 800 width cabinet
10	Bottom	1	SPCC t1.0	Powder coated	
11	Caster tray	2	SPCC t2.0	Powder coated	
12	2" heavy duty castor	4	----	----	----
hardware kits with cabinet:					
A	M12 adjustable feet	4	Steel	zinc-plated	Height:100MM
B	M6 screw& nuts	20/40	Steel	zinc-plated	40pcs for over 33U
C	Quiet fan assembly kit	1	Steel	Powder coated	4 fans, 115V, 125 CFM/Min
	Grounding kit	1	Copper	----	4 ground wires, 1 ground bar
Additional fan units available upon request.					



Definition of Code

NTSCO ☐ ☐ ☐ ☐ ☒ U ☐ ☐

— Cabinet depth: (MM) : 6=600; 8=800; 1=1000;
12=1200

— Cabinet width: (MM): 6=600; 8=800

- Cabinet capacity(U): 26, 42.

- Definition of `freardoor`:

- 1: Tempered glass door with striped hole (type 1).
- 4: Sheet steel door with hexagon hole (type 4).
- 5: High-density vented door (type 5).
- 6: High density double opened door with damper (type 6).

- Definitiono f frontd oor:

- 1: Tempered glass door with striped hole (type 1).
- 4: Sheet steel door with hexagon hole (type 4).
- 5: High-density vented door (type 5).
- 6: High density double opened door with damper (type 6).

*Special orders available upon request

ORION SERVER CABINETS

Ordering Information

Part Number.	Width (mm)	Depth(D)(mm)	Capacity (U)	Height(H)(mm)	CKDpacking parts
NTSCO■■■26U66	600	600	26	1200	3
NTSCO■■■42U66			42	2000	
NTSCO■■■26U68		800	26	1200	
NTSCO■■■42U68			42	2000	
NTSCO■■■42U61		1000	42	2000	
NTSCO■■■42U88	800	800	42	2000	4
NTSCO■■■42U81		1000	42	2000	



- Front&Rear Door (type 1)
Tempered glass door
long-handled lock
180° Maximum opening angle;
- Material: Sheet steel 4MM
safety glass
- Surface Finish: Powder coated
- Colors: RAL7035; RAL7021



- Front&Rear Door (type 4)
Sheet steel door with hexagon hole. Long-handled lock;
180° Maximum opening angle;
- Material: Sheet steel
- Surface Finish: Powder coated
- Colors: RAL7035; RAL7021



- Front&Rear Door (type 5)
High-density vented door;
Slotted surface(SW7 hexagon)
Air inlet opening>67%;
long-handled lock;
180° Maximum opening angle;
- Material: Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL7021

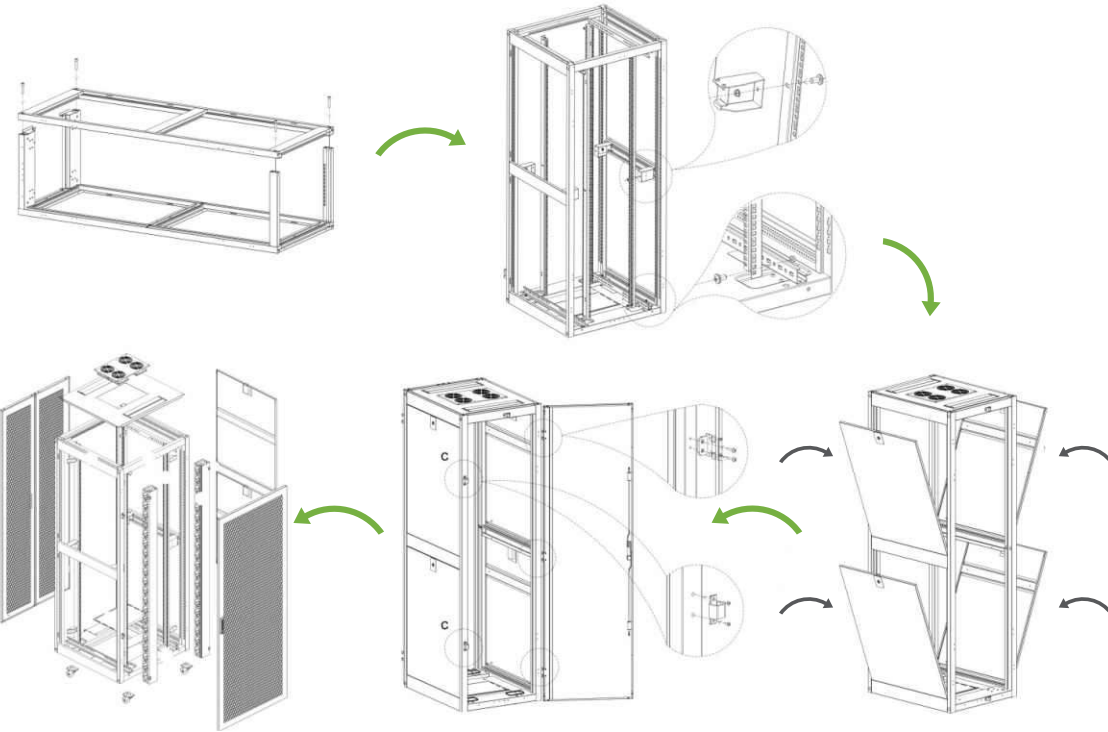


- Front&Rear Door (type 6)
High density double opened damper (SW7 hexagon) Air inlet opening>67%; long-handled lock;
180° Maximum opening angle;
- Material: Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL7021

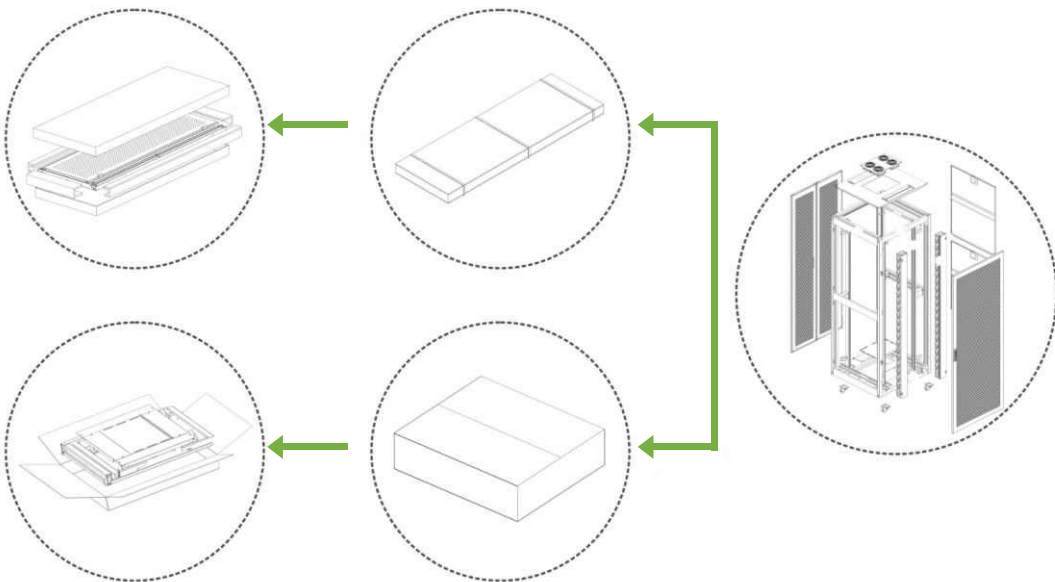
CABINET

ORION SERVER CABINETS

Assembling Draft



CKDPacking



Spark Serial Cabinet



Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN EN10130-99

Material

- SPCC Cold Rolled Steel;
- 19" rails: 1.5mm, Bottom Plate: 1.2mm, Rear door: 1.2mm, others: 1.5mm

Color

- RAL7035 Light gray
- RAL9005 Black

Loading Capacity

- Static loading: 800KG / 1763lbs

Feature

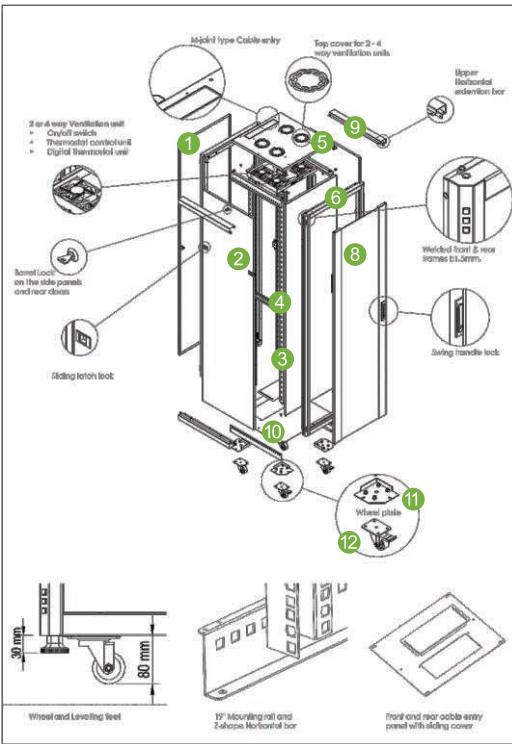
- Exquisite design with precise dimension and craftsmanship.
- Several styles of front and rear doors options available.
- Mostly used for structured network cabling systems in office environments, computer rooms and small or large sized data centers.
- Adjustable feet and heavy duty castors are available simultaneously.
- Cable entry on the top cover and bottom panel with adjustable sizes. Optional installation of plinth to enable cabinets fixation, under-base cable entry/ventilation.
- Removable side panels to ease the maintenance.

CABINET

SPARK SERIAL CABINETS

Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Rear door	1	SPCC t1.2	Powder coated	See front&rear door type
2	Side panel	2	SPCC t1.0	Powder coated	1 Barrel lock/ 2 pieces sliding latches
3	19" rails	4	SPCC t1.4	zinc-plated	
4	Support middle rails	6	SPCC t1.5	zinc-plated	2 C-type & 4 Z-type rails
5	Roof panel	1	SPCC t1.2	Powder coated	Holes for 4 way ventilation & cable entry
6	Frame	2	SPCC t1.5	Powder coated	Monoblock welded frames
7	Cable management slot	2	SPCC t1.0	Powder coated	Only used for 800 width cabinet
8	Front door	1	SPCC t1.5/ 4mm tempered glass	Powder coated	See front&rear door type
9	Extension part	4	SPCC t1.5	Powder coated	2 pieces bottom / 2 pieces upper part
10	Bottom plate	1	SPCC t1.2	Powder coated	
11	Wheel plate	4	SPCC t1.5	Powder coated	
12	heavy duty castor	4	----	----	----
hardware kits with cabinet:					
A	M12 adjustable feet	4	Steel	Zinc-plated	Height:100MM
B	M6 screw& nuts	20	Steel	Zinc-plated	
C	Quiet fan assembly kit	1	Steel	Powder coated	4 fans, 115V, 125 CFM/Min
D	Grounding kit	1	Copper	----	4 ground wires, 1 ground bar
Additional fan units available upon request.					



- Right-angled frame enables users to easily place the logo.
 - Easy to connect and remove grounding kit
- Definition of Code**
- NT■C■U■
- Cabinet depth: (MM) 6=600; 8=800; 1=1000; 12=1200
 - Cabinet width: (mm): 6=600; 8=800
 - Cabinet capacity (U) 12, 16, 20, 22, 26, 32, 36, 42, 45, 47.
 - S: Server Cabinet
80% perforated metal front door (type 0)
63% perforated metal front door (type 1)
80% perforated metal double rear door (type 4)
63% perforated metal double rear door(type 5)
Solid metal rear door (type 2)
 - N: Network Cabinet
Tempered glass front door (type 3)
Solid metal front door (type 2)
Solid metal rear door (type 2)

*Special orders available upon request

CABINET

SPARK SERIAL CABINETS

Ordering Information

Part Number.	Width (mm)	Depth(D) (mm)	Capacity (U)	Height(H) (mm)	CKD packing parts
NT■C■12U66	600	600	12	536.6	3
NT■C■16U66			16	714.4	
NT■C■20U66			20	892.2	
NT■C■22U66			22	981.1	
NT■C■26U66			26	1158.9	
NT■C■32U66			32	1425.6	
NT■C■36U66			36	1603.4	
NT■C■42U66			42	1870.1	
NT■C■45U66			45	2003.5	
NT■C■47U66			47	2092.4	
NT■C■12U68		800	12	536.6	3
NT■C■16U68			16	714.4	
NT■C■20U68			20	892.2	
NT■C■22U68			22	981.1	
NT■C■26U68			26	1158.9	
NT■C■32U68			32	1425.6	
NT■C■36U68	800	800	36	1603.4	3
NT■C■42U68			42	1870.1	
NT■C■45U68			45	2003.5	
NT■C■47U68			47	2092.4	
NT■C■12U61		1000	12	536.6	4
NT■C■16U61			16	714.4	
NT■C■26U61			26	1158.9	
NT■C■32U61			32	1425.6	
NT■C■36U61			36	1603.4	
NT■C■42U61			42	1870.1	
NT■C■45U61		800	45	2003.5	4
NT■C■47U61			47	2092.4	
NT■C■26U88		1000	26	1158.9	
NT■C■32U88			32	1425.6	
NT■C■36U88			36	1603.4	
NT■C■42U88			42	1870.1	
NT■C■45U88	800	800	45	2003.5	4
NT■C■47U88			47	2092.4	
NT■C■26U81		1000	26	1158.9	
NT■C■32U81			32	1425.6	
NT■C■36U81			36	1603.4	
NT■C■42U81			42	1870.1	
NT■C■45U81			45	2003.5	
NT■C■47U81			47	2092.4	

CABINET

SPARK SERIAL CABINETS



- Front door (type 3)
- Tempered glass door.
- EMKA swing handle lock
- Reversible right or left handed doors;
- Turning angle is over 180 degrees;
- Material:
 - Sheet steel
 - 4MM safety glass
- Surface Finish: Powder coated
- Color: RAL7035;RAL9005



- Front door (type 0)
- 80% Perforated metal door
- EMKA swing handle lock
- Reversible right or left handed doors
- Turning angle is over 180 degrees
- Material:
 - Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9005



- Rear door (type 4)
- 80% Perforated metal double door
- 3 point lock with comfort handle
- Turning angle is over 180 degrees;
- Material:
 - Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9005



- Front & rear door (type 2)
- Sheet steel door.
- EMKA swing handle lock
- Reversible right or left handed doors;
- Turning angle is over 180 degrees;
- Material:
 - Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9005



- Rear door (type 5)
- 63% Perforated metal double door
- 3 point lock with comfort handle
- Turning angle is over 180 degrees;
- Material:
 - Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9005

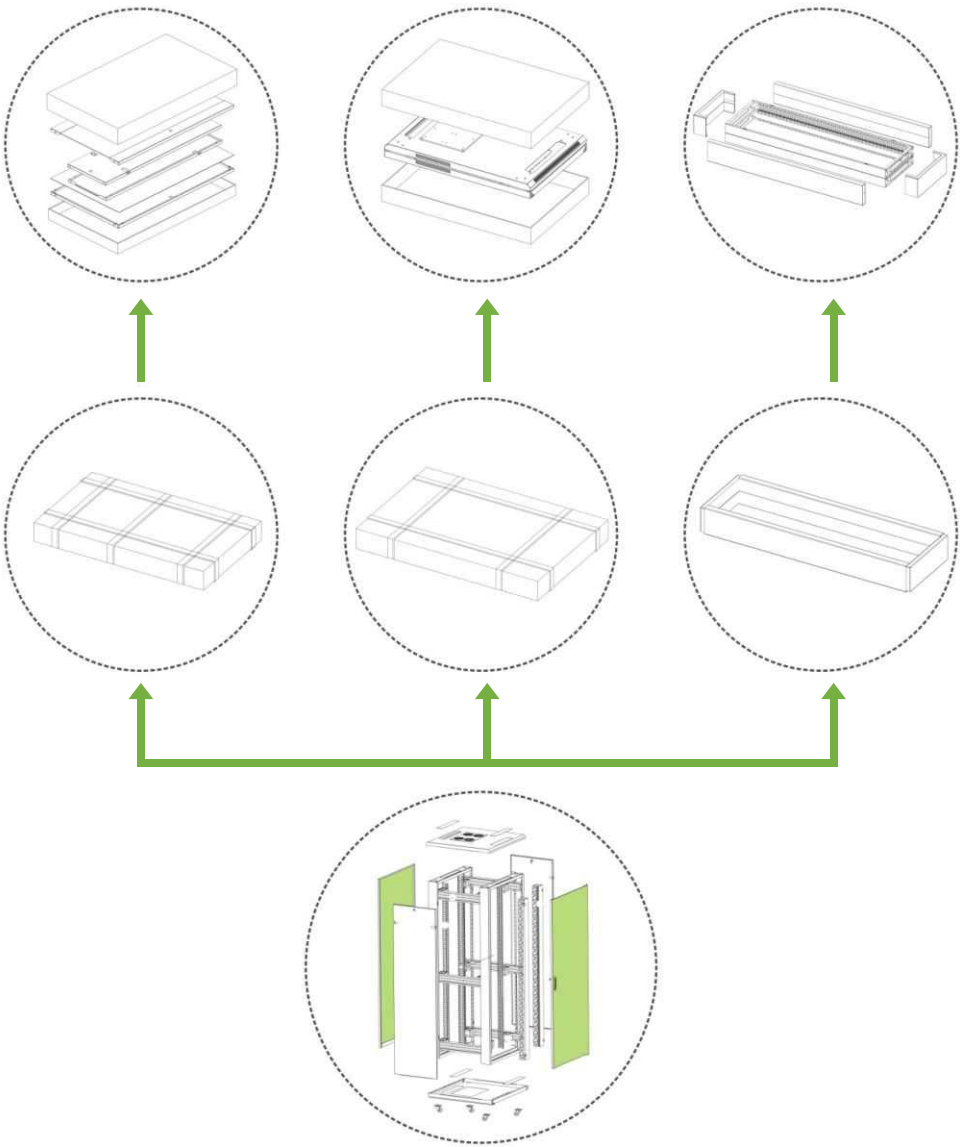


- Front door (type 0)
- 80% Perforated metal door
- EMKA swing handle lock
- Reversible right or left handed doors
- Turning angle is over 180 degrees
- Material:
 - Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9005

CABINET

SPARK SERIAL CABINETS

CKD Packing



Budget Cabinets

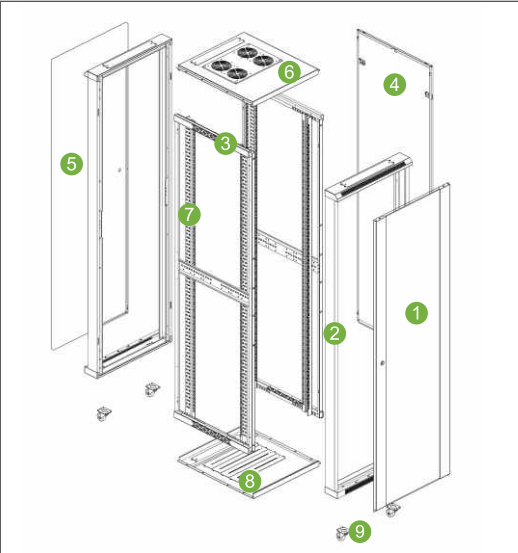


- Standard**
- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494; PART1; DIN41494; PART7 .
- Material**
- SPCC Cold Rolled Steel;
 - 19" rails: 2.0mm, others: 1.2mm.
- Color**
- RAL7035.
 - RAL9004.
- LoadingC apacity**
- Static loading:800KG.

CABINET BUDGET CABINETS



- Feature**
- Flat packing and patent frame, packing time is less than 20 minutes.
 - Exquisite design with precise dimension and craftsmanship.
 - Several styles of front and rear door options available.
 - Adjustable feet and heavy duty castors are available simultaneously.
 - Cable entry on the top cover and bottom panel with adjustable sizes .
 - Optional installation of plinth to enable cabinets fixation, under-base cable entry/ventilation.
 - Efficient and reliable cabinet connection by baying kit.
 - Removable side panels to ease the maintenance.



Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Front door	1	----	Powder coated	See next page
2	Frame	2	SPCC t1.2	Powder coated	----
3	Side frame	2	SPCC t1.2	Powder coated	----
4	Side panel	2	SPCC t1.2	Powder coated	≥ 1000 width cabinets need 4 panels
5	Rear door	1	----	Powder coated	See next page
6	Top cover	1	SPCC t1.2	Powder coated	----
7	19" rails	4	SPCC t2.0	Powder coated	----
8	Bottom	1	SPCC t1.2	Powder coated	----
9	2" heavy duty castor	4	----	----	----
A	M12 adjustable feet	4	----	v	----
B	M6 screw& nuts	20	Steel	Color zinc	40pcs for over 33U
C	Trox tooling	1	Steel	Color zinc	----
D	Quiet fan assembly kit	1	Steel	Powder coated	4 fans, 115V, 125 CFM/Min
F	Grounding kit	1	Copper	----	4 ground wires, 1 ground bar

The 600mm width cabinet can be changed to the 800mm width one, only need to put the connecting panel and 2 cable management slots.
Support 19" EIA equipment. Additional fan units available upon request.

CABINET

BUDGET CABINETS

Ordering Information

Part Number.	Width (mm)	Depth(D)(mm)	Capacity (U)	Height(H)(mm)	CKDpacking parts
NTBC15U66	600	600	15	800	3
NTBC20U66			20	1000	
NTBC24U66			24	1200	
NTBC29U66			29	1400	
NTBC33U66			33	1600	
NTBC38U66			38	1800	
NTBC42U66		800	42	2000	
NTBC47U66			47	2200	
NTBC15U68			15	800	
NTBC20U68			20	1000	
NTBC24U68			24	1200	
NTBC29U68			29	1400	
NTBC33U68			33	1600	
NTBC38U68			38	1800	
NTBC42U68		900	42	2000	
NTBC47U68			47	2200	
NTBC38U69			38	1800	3
NTBC42U69	1000	900	42	2000	
NTBC47U69			47	2200	
NTBC38U61		1000	38	1800	
NTBC42U61			42	2000	
NTBC47U61			47	2200	
NTBC38U86	800	600	38	1800	4
NTBC42U86			42	2000	
NTBC47U86			47	2200	
NTBC38U88		800	38	1800	
NTBC42U88			42	2000	
NTBC47U88			47	2200	
NTBC38U89		900	38	1800	
NTBC42U89			42	2000	
NTBC47U89			47	2200	
NTBC38U81		1000	38	1800	
NTBC42U81			42	2000	
NTBC47U81			47	2200	

Packing dimensions: Carton width=cabinet width+40mm, Carton depth=cabinet depth+40mm, Carton height=cabinet high+90mm



Front door (type 0)
Tempered glass door.
Small lock;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
Material:
Sheet steel
5MM safety glass
Surface Finish: Powder coated
Color: RAL7035;RAL9004



Rear door (type 3)
Sheet steel door.
Small lock;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
Material:
Sheet steel
Surface Finish: Powder coated
Color: RAL7035; RAL9004

CABINET

DOORS FOR BUDGET CABINETS



- Front & rear door (type 0)
Tempered glass door.
Small lock;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
- Material:
Sheet steel
5MM safety glass
- Surface Finish: Powder coated
- Color: RAL7035;RAL9004



- Front & rear door (type 1)
Tempered glass door with striped hole.
Gray decoration bar;
Small lock;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
- Material:
Sheet steel
5MM safety glass
- Surface Finish: Powder coated
- Color: RAL7035; RAL9004



- Front & rear door (type 2)
Tempered glass door with net hole.
Gray decoration bar;
Lock with comfort handle;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
- Material:
Sheet steel
5MM safety glass
- Surface Finish: Powder coated
- Color: RAL7035; RAL9004



- Front & rear door (type 3)
Sheet steel door.
Small lock;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
- Material:
Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9004



- Front & rear door (type 4)
Sheet steel door with hexagon hole.
Small lock;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
- Material:
Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9004



- Front & rear door (type 5)
High-density vented door;
Slotted surface (SW7 hexagon) Air inlet opening>60%;
Lock with comfort handle;
Reversible right or left handed doors;
Turning angle is over 180 degrees;
- Material: Sheet steel
- Surface Finish: Powder coated
- Color: RAL7035; RAL9004

CABINET

BUDGET CABINETS

Additional accessories for the cabinets



Shelf



Plinth



Fan units



M6 Screws & nuts

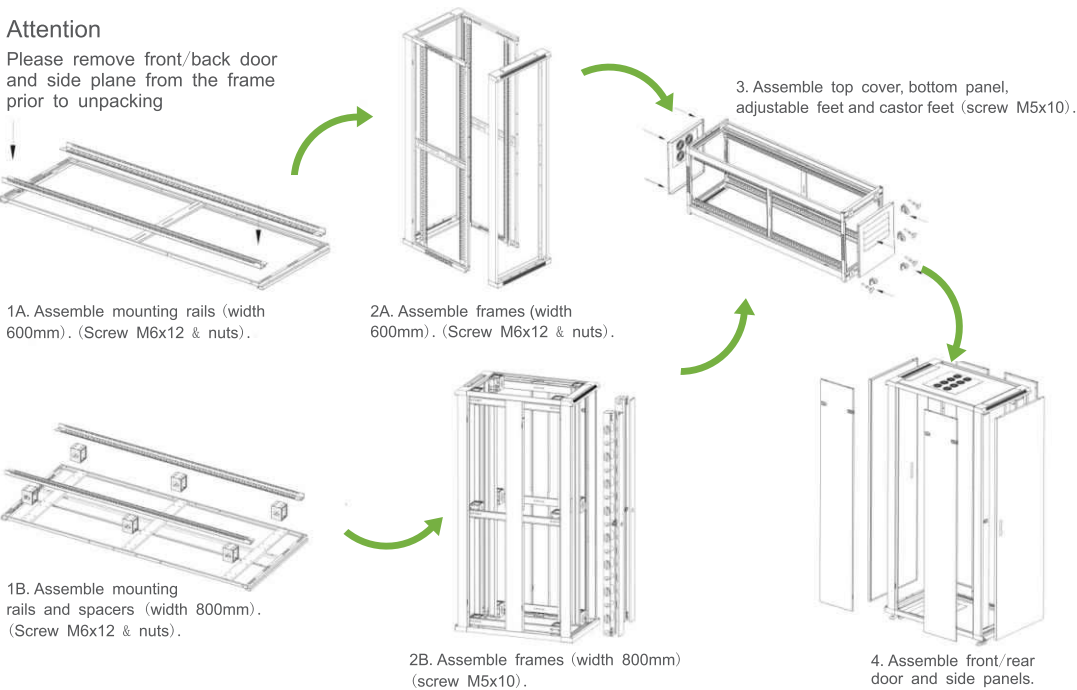


PDU

Assembling Draft

Attention

Please remove front/back door and side plane from the frame prior to unpacking



Colo Server Rack



Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494; PART1; DIN41494; PART7 .

Material

- SPCC Cold Rolled Steel;

Color

- RAL7035.
- RAL9004.

Loading capacity

- Static loading:1200KG.

CABINET COLO SEVER RACK



Highlights

Separate space

Divided into four compartment configuration. Two or three separated space are also optional.

Static loading capacity

Robust steel frame makes static loading capacity up to 1200kg

Massive ventilation rate

Perforations on front and rear door enable optimum airflow up to 78% within the rack.

Opening angle

Opening angle over 130 degree can be achieved with front door and rear door.

Various packaging

Can be shipped in build-up or flat-packed.Flat packaging saves up to 60% transport cost and warehouse space.

Features



3-digit code lock for each door to keep the security for



Top panel with cable access(brush panel is optional).



Divided side panels with single key lock.



Strengthened fixed shelves divide the rack into 4 sections and each shelf is with 80KG static loading capacity.



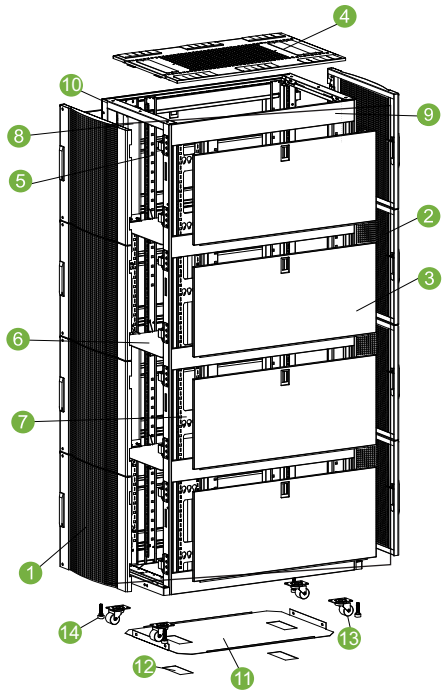
The opening angle of front door is over 130 degrees.



Each separated space with a vertical cable manager.

CABINET

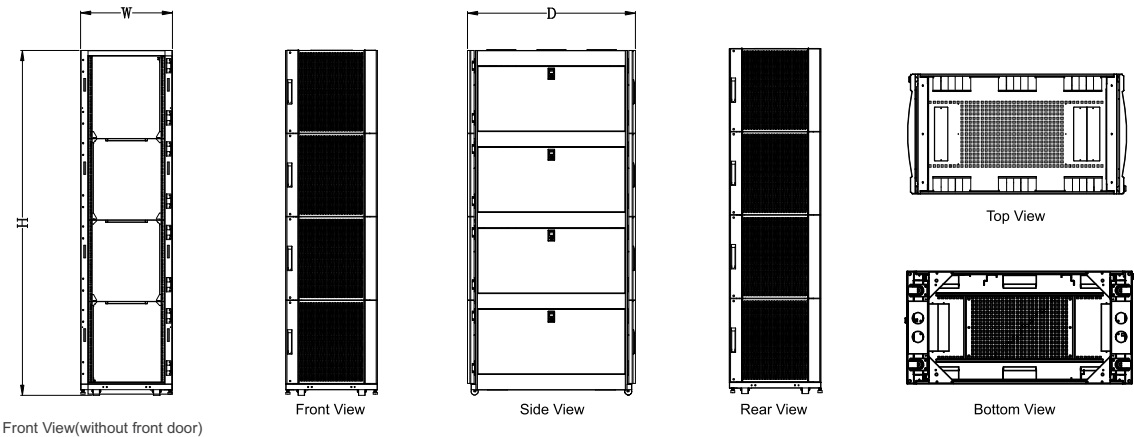
Colo Server Rack



Main Part

S/N	Name	Quantity (42/48U)
1	Front door	4
2	Rear door	4
3	Side panel	8
4	Top cover	1
5	Vertical rail	4
6	Divide panel	3
7	Cable management rail	4
8	Cable management rail cover	4
9	Horizontal beam	10
10	Door frame	2
11	Bottom plate	1
12	Cover for bottom cable entry	2
13	Castors	4
14	Levelling feet	4

Main Dimension



Specifications

Model	Capacity (U)	Dimension W*D*H(mm)	BU Packing Dimension		KD Packing Dimension			
			W*D*H(mm)	Volume (CBM)	Carton A W*D*H(mm)	Carton B W*D*H(mm)	Carton C W*D*H(mm)	Volume (CBM)
NTCOLO42U61-4	42	600*1070*1992	650*1150*2150	1.607	2055*245*630	1965*215*165	1015*135*855	0.503
NTCOLO48U61-4	48	600*1070*2259	650*1150*2350	1.756	2290*245*630	2225*245*165	1015*135*985	0.578

Aisle Containment



CABINET

AISLE CONTAINMENT

Components of Containment



S/N	Name
1	Rack
2	Aisle door
3	Roof ceiling

Row-based containment kit



Model	Description
NTSG6142KIT	NTSG6142KIT include 2pcs of SSG6142, roof ceiling
NTSG8142KIT	NTSG8142KIT include 2pcs of SSG8142, roof ceiling

Remark:Other sizes and other types of rack are available.

CABINET

AISLE CONTAINMENT

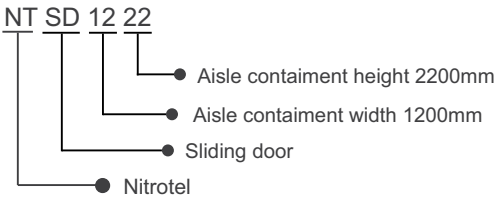


Sliding Doors
Manual mode, semi-automatic, full-automatic mode

Model	Description
NTSD-1222CG	Full-automatic mode Material:8mm toughened glass, with TCP/IP door access locking system

How to Define Our Model

NTSD1222AG



Roof ceiling



Model	Description
NTTC-0612AG	Include rotary roof ceiling, external decoration panel and fixed plate

Note:Height of decoration panel and fixed plate only have 200mm and 300mm.

32 & 36"D Enclosures



PROUDLY

MADE IN THE USA

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1; DIN41494, PART7

Material

- SPCC Cold Rolled Steel;

Color

- RAL7035
- RAL9004

Loading Capacity

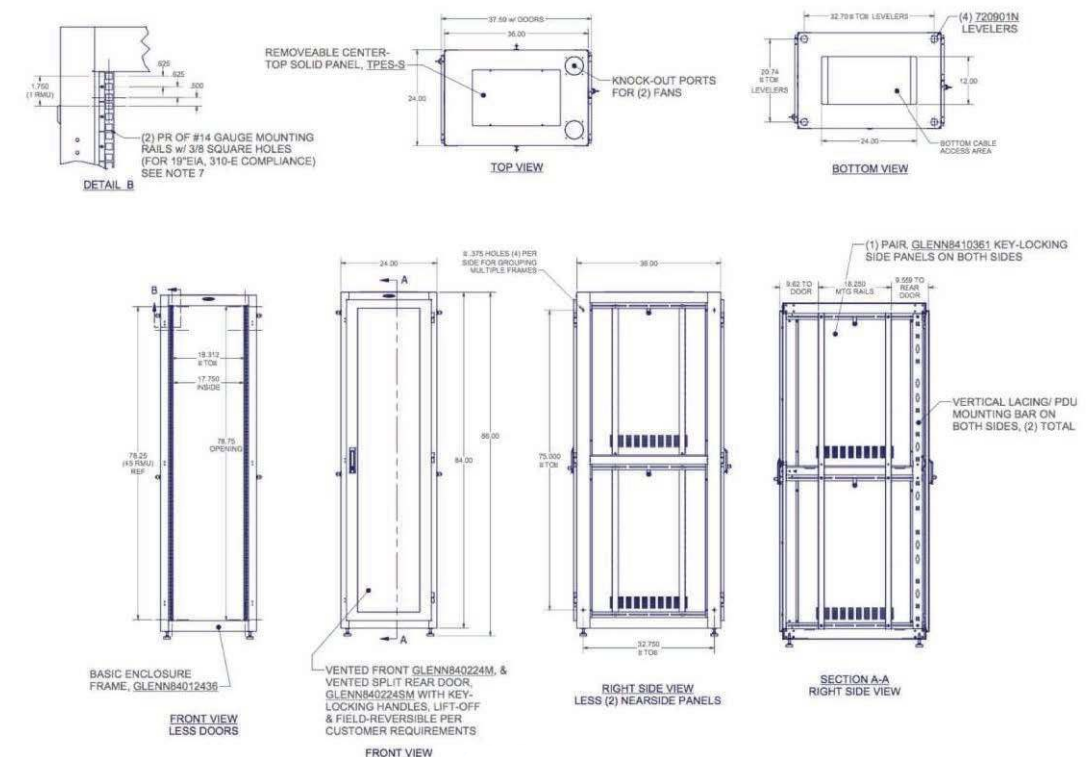
- Static loading: Up to 680 KG

CABINET

32 & 36"D ENCLOSURES

Feature

- 19" EIA 310-E Compliant
- Fully welded steel frame
- Field-reversible locking mesh front door
- Split locking mesh rear door
- Two pair of 3/8" (M6) adjustable rails with package of mounting hardware • Solid Top
- Two Fan Knockouts in the rear of the enclosure top for mounting of fan assemblies
- Four flush mounted lockable vented sides
- Set of four adjustable levelers
- Two vertical bars fixed in each of the rear corners to be utilized as cable managers or mounting of PDUs and Vertical Cable Troughs
- 1500 lb. weight capacity
- Black powder coated finish



Part No.	Description
NTSC840-2432	84"H X 24"W X 32"D, Complete Enclosure, max. rail spacing, 29.38"; usable depth, 30"
NTSC840-2436	84"H X 24"W X 36"D, Complete Enclosure, max. rail spacing, 33.43"; usable depth, 34"

N Cabinets

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1; DIN41494, PART7

Material

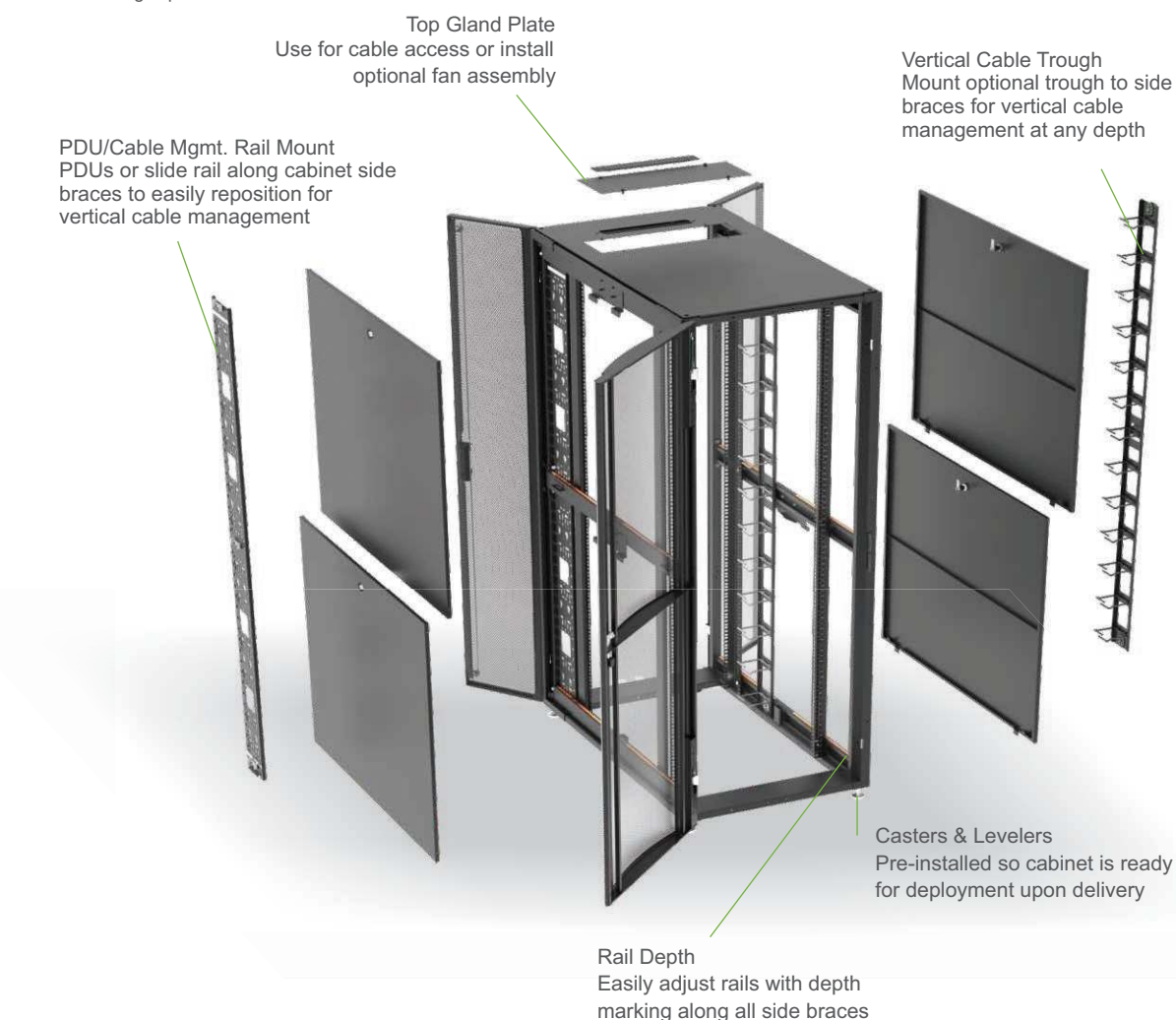
- SPCC Cold Rolled Steel;
- Thickness: 19" rails: 1.2mm, others: 1.0mm

Color

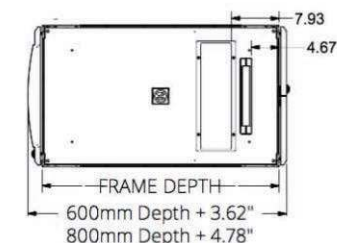
- RAL7035
- RAL9004

Loading Capacity

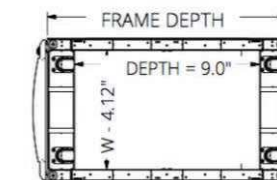
- Static loading: Up to 1360 KG



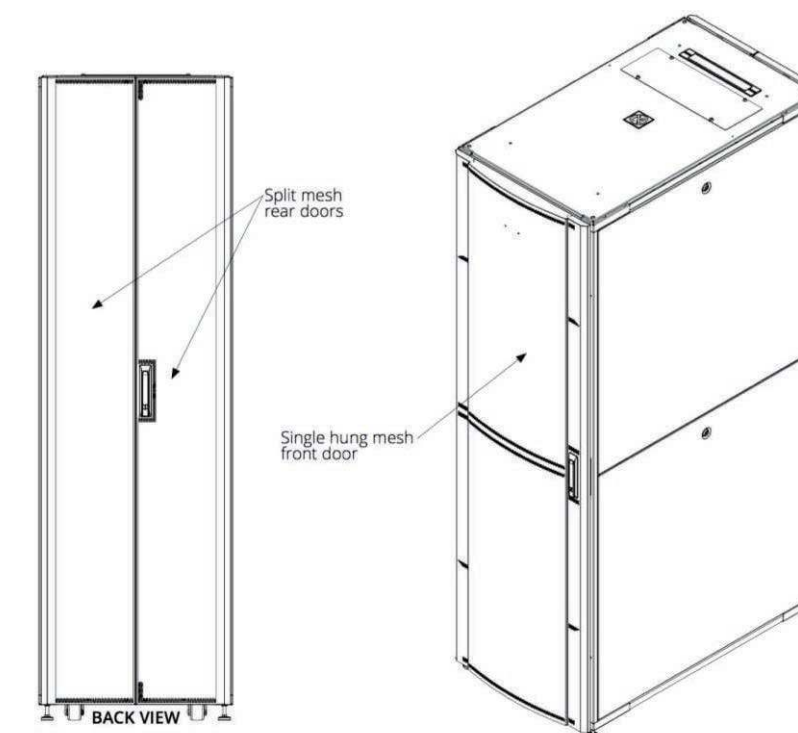
N CABINETS



TOP VIEW



BOTTOM VIEW



Feature

- Frame with two pairs of 19" EIA mounting rails with RMU markings - Two pairs of 3/8" sq. (M6) rails installed
- Single PDU/cable management rail with keyhole pattern for button mounting PDUs and lacing point pattern for cinch straps
- Solid top panel
- Half-height solid side panels with locks
- Adjustable levelers (2.5"H) and casters installed (cabinet is 88"H with levelers/casters, 86"H without; cabinet is 79"H with levelers/casters installed, 77"H without)
- Front mesh door with locking swing handle
- Rear split mesh door with locking swing handle
- 3000 lb. weight capacity
- Color: Black
- Standards: UL, RoHS II

Height	Width	Depth	Example
NTNXXXL	XX	XX	Configured N Cabinet
910 (48U, 91")	24	42	
790 (42U, 79")	32	48	

Start Wallmount Cabinet

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1, DIN41494, PART7

Material

- SPCC Cold Rolled Steel;
- Thickness: 19" rails: 1.2mm, side panel 1.0mm, others: 1.2mm

Color

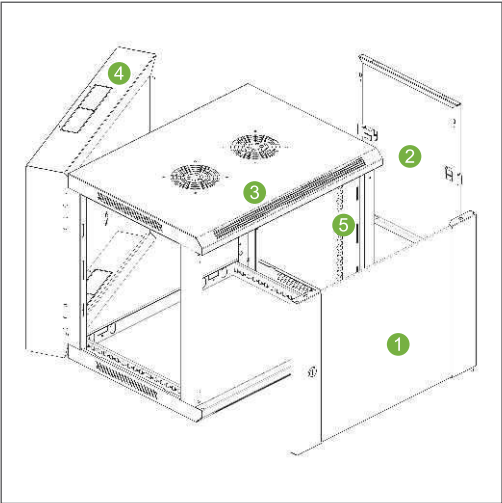
- RAL7035
- RAL9004

Loading Capacity

- Static loading: Up to 95 KG



WALLMOUNT CABINET START DOUBLE SECTION



Feature

- Double -section wallmount cabinet.
- Tempered glass front door with 180° turning radius rotatable key lock.
- Removable side and rear panels for quick installation of equipment.
- Adjustable front and rear mounting posts conform to different equipment depth requirements. Dual mounting post with #12-24 threaded holes and square holes for cage nuts.
- Ventilated door design for added air flow and cooling.
- Cable entry brush panel on the top cover and knock-outs on the bottom plate.
- Provided with 1 fans with UL cord installed. Additional fan may be provided upon request.
- Easy to wall mount back plate.
- Available in heights from 6u to 23u.
- Fully assembled for quick installation and packaged in a honeycomb carton. Optional space saving flat packaging available upon request.

Definition of Code

- NTDWC ■ ■ ■ U650
- Cabinet capacity(U) : 6, 9, 12, 16, 20, 23
- Definition of front door:
Blank-Tempered glass door (default option)
1-Tempered glass door with striped hole (Especial request)
2-Tempered glass door with hexagon hole (Especial request)
3- Sheet steel door (Especial request)
4-Sheet steel door with hexagon hole (Especial request)
5-High-density vented door (Especial request)

Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Front door	1	5MM toughed glass door/ SPCCt1.2	Powder coated	----
2	Side panel	2	SPCC t1.0	Powder coated	----
3	Front frame	1	SPCC t1.2	Powder coated	----
4	Back frame	1	SPCC t1.2	Powder coated	----
5	19 " rails	4	SPCC t1.2	Powder coated	----
A	M6 screw& nuts	10	Steel	Color zinc	----
B	Trox tooling	1	Steel	Black	----

Specification

Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Static Loading Capacity (kg)
NTDWC ■ 6U650	6	600	650	370	70
NTDWC ■ 9U650	9	600	650	500	70
NTDWC ■ 12U650	12	600	650	635	75
NTDWC ■ 16U650	16	600	650	770	80
NTDWC ■ 20U650	20	600	650	900	90
NTDWC ■ 23U650	23	600	650	1080	95

Star Wallmount Cabinet

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1; DIN41494, PART7

Material

- SPCC Cold Rolled Steel;
- Thickness: 19" rails: 1.2mm, others: 1.0mm

Color

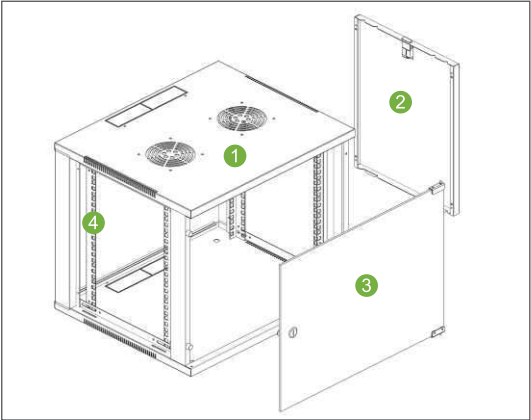
- RAL7035
- RAL9004

Loading Capacity

- Static loading: Up to 115 KG



WALLMOUNT CABINET START SINGLE SECTION



Feature

- Single-section wallmount cabinet.
- Tempered glass front door with 180° turning radius rotatable key lock.
- Removable side and rear panels for quick installation of equipment.
- Adjustable front and rear mounting posts conform to different equipment depth requirements. Dual mounting post with #12-24 threaded holes and square holes for cage nuts.
- Ventilated door design for added air flow and cooling.
- Cable entry brush panel on the top cover and knock-outs on the bottom plate.
- Provided with 1 fan with UL cord installed. Additional fan may be provided upon request.
- Easy to wall mount back plate.
- Available in heights from 6u to 23u.
- Fully assembled for quick installation and packaged in a honeycomb carton. Optional space saving flat packaging available upon request.

Definition of Code

- NTFWC ■ ■ ■ U600
- Cabinet capacity(U) : 6, 9, 12, 16, 20, 23
 - Definition of front door:
 - Blank-Tempered glass door (default option)
 - 1-Tempered glass door with striped hole (Especial request)
 - 2-Tempered glass door with hexagon hole (Especial request)
 - 3- Sheet steel door (Especial request)
 - 4-Sheet steel door with hexagon hole (Especial request)
 - 5-High-density vented door (Especial request)

Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Frame	1	SPCC t1.0	Powder coated	----
2	Side panel	2	SPCC t1.0	Powder coated	----
3	Front door	1	5MM toughed glass	----	----
4	19 " rails	4	SPCC t1.2	Powder coated	----
A	M6 screw& nuts	10	Steel	Color zinc	----
B	Trox tooling	1	Steel	Black	----

Specification

Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Static Loading Capacity (kg)
NTFWC6U600	6	600	600	370	90
NTFWC9U600	9	600	600	500	90
NTFWC12U600	12	600	600	635	95
NTFWC16U600	16	600	600	770	100
NTFWC20U600	20	600	600	900	110
NTFWC23U600	23	600	600	1080	115

SOHO Cabinet

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1; DIN41494, PART7

Material

- SPCC Cold Rolled Steel;
- Thickness: 19" rails: 1.2mm, others: 1.0mm

Color

- RAL7035
- RAL9004

Loading Capacity

- Static loading: Up to 60 KG



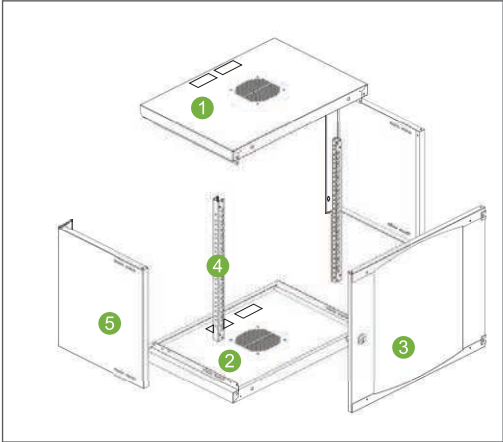
WALLMOUNT CABINET SOHO SINGLE SECTION

Feature

- Disassembled and small packaging, easy to deliver and carry.
- Special design front and back frames are with good stability.
- 16 screws are needed to assemble the whole enclosure. It will take only 10 minutes to assemble the enclosure by one person.
- Wide glass front door allows and excellent view of the interior of the cabinet. Opening direction could be changed easily.
- Cable entries are available on top, bottom and back of enclosure, suitable for different places.
- Maximum Loading capacity: 50kgs.

Definition of Code

NTSOHO ■ U500
Cabinet capacity(U): 6, 9, 12



Main Part

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Top Cover	1	SPCC t1.0	Powder coated	----
2	Bottom Plate	1	SPCC t1.0	Powder coated	----
3	Front door	1	5MM toughed glass door/ SPCC t1.0	----	Small lock
4	19" rails	2	SPCC t1.5	Powder coated	----
5	Side Panels	2	SPCC t1.0	Powder coated	----

Specification

Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Static Loading Capacity (kg)
NTSOHO6U500	6	600	450	370	40
NTSOHO9U500	9	600	450	500	45
NTSOHO12U500	12	600	450	635	50

May Installs The Fitting



N Wallmount Cabinets

Standard

- Comply with ANSI/EIA RS-310-D, IEC60297-2, DIN41494, PART1; DIN41494, PART7

Material

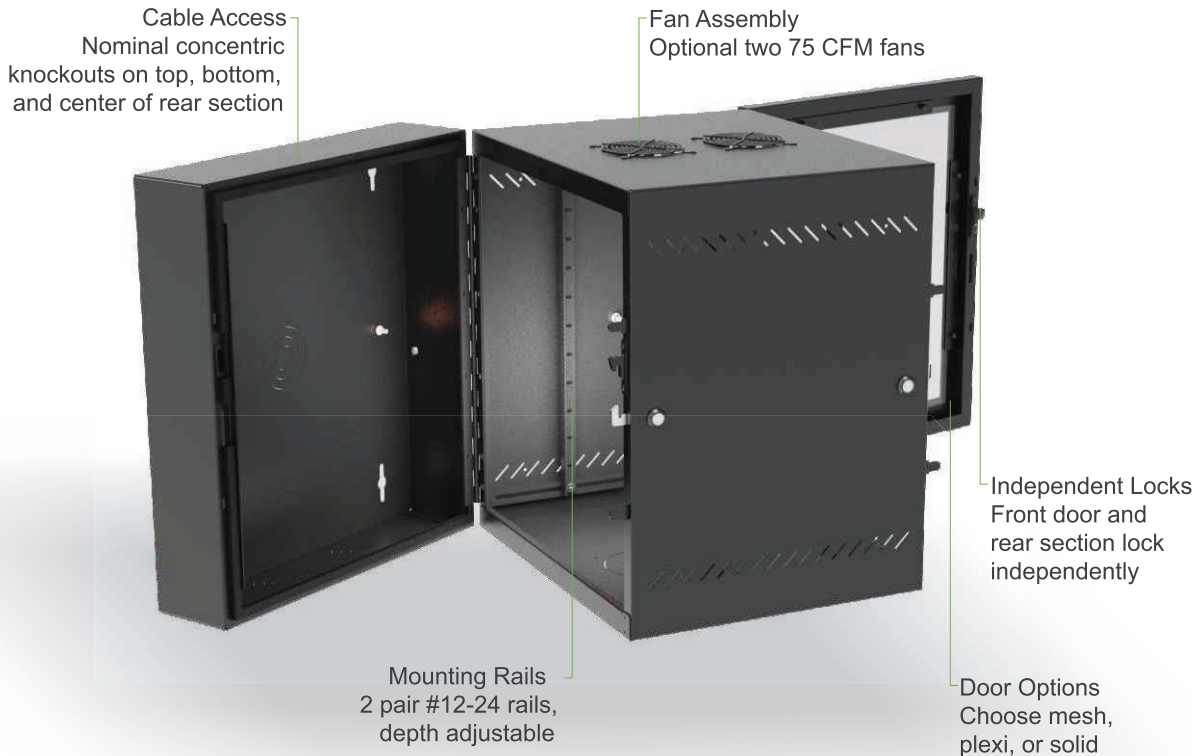
- SPCC Cold Rolled Steel;

Color

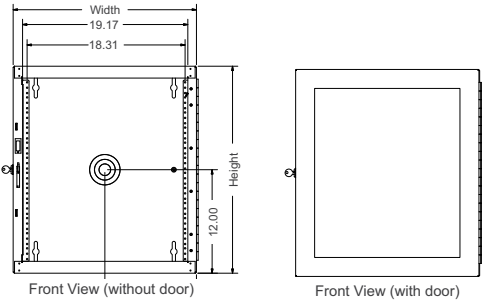
- RAL7035
- RAL9004

Loading Capacity

- Static loading: Up to 150 KG

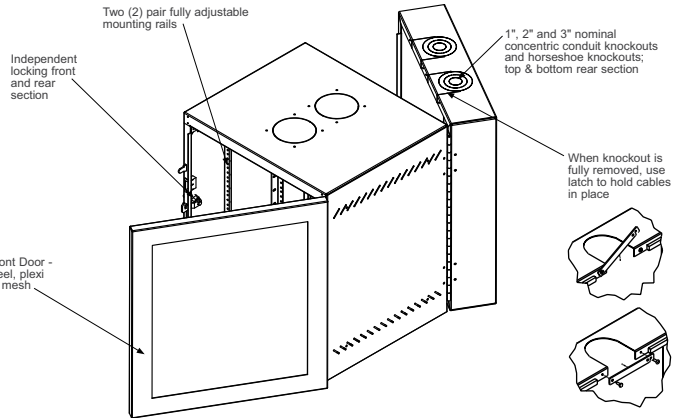


N WALLMOUNT CABINET



Feature

- Two pair of #12-24 tapped mounting rails (depth adjustable)
- Horseshoe knockouts allow already terminated cable to be installed or removed without having to disconnect
- Optional dust kit to protect equipment in contaminated areas
- Independent keyed locks on front door and rear section
- Reversible mounting for left-hand or right-hand opening
- Standards: UL, RoHS II



Height	Door	Color	Airflow	Example
NTXXWM	X-	B-	XX-	Configured WM
24 (24 x 25)	P (Plexi)	B (Black)	AF (Fan Included)	NT24WMP-B-AF
36 (24 x 25)	M (Mesh)		00 (None)	
48 (24 x 25)	S (Solid)			
2418 (24 x 18)				

May Installs The Fitting



CABINETS FITTING

PDU

PDU



Input connector type



Plug style	Bs1363
Parameter	13A 250VAC



Plug style	AS/NZS 3112
Parameter	10/15A 250VAC



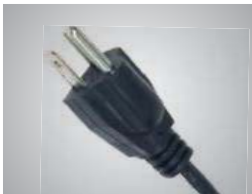
Plug style	IEC60329
Parameter	16/32A 250VAC



Plug style	IEC320 C14(C20)
Parameter	10(16A) 250VAC



Plug style	DIN49441
Parameter	16A 250VAC



Plug style	NEMA 5-15P
Parameter	15A 125VAC

CABINETS FITTING

PDU

Output unit type



Style	AS/NZS 3112
Parameter	10(15A) 250VAC



Style	DIN49440
Parameter	16A 250VAC



Style	IEC320 C13(C19)
Parameter	10(16A) 250VAC



Style	BS1363(90°)
Parameter	13A 250VAC



Style	BS1363(45°)
Parameter	13A 250VAC



Style	NEMA 5-15R
Parameter	15A 150VAC

Input connector type



Name	Master switch
------	---------------



Name	Master overload Protector & power indicator
------	---



Parameter	Mini circuit breaker(1~60A)
-----------	-----------------------------



Code	LY-A
Name	protective device



Code	LY-B
Name	protective device

Surge protective device

TUL-LY-A/B	Parameter
Rated voltage	250VAC 50/60Hz
Rated load current IR	16A
Max. power PMAX	4000W
Max. Continuous operating voltage UC	320VAC
Measured limiting voltage Ur	<1000V
Nominal discharge current(8/20μs)In	10KA
Voltage protection level Up	<1000V
Response time TA	<25ns
Protection mode	L-N L-PE N-PE
Earth indicator	Yellow LED
Lightning protection	Green LED
Power indicator	Red LED
Alternative filtration	Highly efficient
Insulation resistance RIS	>100MΩ
Fire resistance	Up to UL 94V-0
Environment temperature	-40~+70°C
Relative humidity	<=95%

Surge protective device:LY-B



- Red LED light, when working, means the Power had Unicom and filtering output.
- Green LED light, when disabled, means the failure ofThe lighting protection circuit.
- Yellow LED light, when working, means the absence of earth wire of the power supply system, which shall be case to contact electrician for his professional and grounding.

CABINETS FITTING COOLING

2/4 Fan Units

Parameter

- Fan size:120X120X38, cable length: 1.9M
- Input frequency: 100~231V/50Hz
- Period: -10°C~+50°C
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Input connector type
NTFAN2UK	2 fans	UK type (BS1363)
NTFAN2GE	2 fans	German type(DIN49441)
NTFAN2US	2 fans	US type (NEMA 5-15P)
NTFAN4UK	4 fans	UK type (BS1363)
NTFAN4GE	4 fans	German type (DIN49441)
NTFAN4US	4 fans	US type (NEMA 5-15P)

2/4 Fan Units With Thermostat

Parameter

- large setting range: 0°C~+60°C
- small size
- High switching performance
- Fan size:120X120X38, Cable length:1.9m
- Input frequency:100~231V/50Hz
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Input connector type
NTFANT2UK	2 fans	UK type(BS1363)
NTFANT2GE	2 fans	German type(DIN49441)
NTFANT2US	2 fans	US type (NEMA 5-15P)
NTFANT4UK	4 fans	UK type (BS1363)
NTFANT4GE	4 fans	German type (DIN49441)
NTFANT4US	4 fans	US type (NEMA 5-15P)

CABINETS FITTING COOLING

1U Fan Units

- 19" standard installation, 1U Switch control fans work.

Parameter

- Fan size: 120X120X38, cable length: 1.9M
- Input frequency: 100~231V/50Hz
- Period: -10°C~+50°C
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Input connector type
NTFAN1U2UK	2 fans	UK type (BS1363)
NTFAN1U2GE	2 fans	German type (DIN49441)
NTFAN1U2US	2 fans	US type (NEMA 5-15P)
NTFAN1U3UK	3 fans	UK type (BS1363)
NTFAN1U3GE	3 fans	German type (DIN49441)
NTFAN1U3US	3 fans	US type (NEMA 5-15P)
NTFAN1U4UK	4 fans	UK type (BS1363)
NTFAN1U4GE	4 fans	German type (DIN49441)
NTFAN1U4US	4 fans	US type (NEMA 5-15P)

3U Fan Units

- 19" standard installation, 3U

Parameter

- Fan size: 120X120X38, cable length: 1.9M
- Input frequency: 100~231V/50Hz
- Period: -10°C~+50°C
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Input connector type
NTFAN3U2UK	2 fans	UK type (BS1363)
NTFAN3U2GE	2 fans	German type (DIN49441)
NTFAN3U2US	2 fans	US type (NEMA 5-15P)
NTFAN3U3UK	3 fans	UK type (BS1363)
NTFAN3U3GE	3 fans	German type (DIN49441)
NTFAN3U3US	3 fans	US type (NEMA 5-15P)

CABINETS FITTING SHELF

Cooling Fan

- For network cabinet, adjust inner temperature
Performance reference.

Parameter

- Size: 120X120X38
- Atmosphere runoff: 50CFM, Noise: 24.9 dB
- periode: -10°C~+50°C



Main part:

Model No.	Description	Input(v)	Axletree Type
NTFANU	AC fans	115	Oiliness Axletree

Solid Shelves

- Used for 19 inch network cabinet and rack.

Parameter

- Material: SPCC cold rolled steel.
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Capacity
NTSS2UX15	2U-15" DP	22Kg.[48Lb]
NTSS2UX18	2U-18" DP	22Kg.[48Lb]

Double Sided Shelf (2U)

- Used for 19" open rack, 2U height.

Parameter

- Material: SPCC cold rolled steel.
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Capacity
NTSSD2U25	2U-25" DP	50Kg.[110Lb]

CABINETS FITTING SHELF

Fixed Shelf

- Only for SHIP cabinet, install from side.

Parameter

- Static load capacity: 90 Kg [198Lb]
- Material: SPCC 1.2 cold rolled steel
- Color: RAL7035
RAL9004



Main part:

Model No.	Shelf size MM		Use
	Width	Depth	
NTFS350	485	350	600MM
NTFS550	485	550	800MM
NTFS620	485	620	900MM
NTFS720	485	720	1000MM cabinet

Vented Shelves

- Used for 19 inch network cabinet and rack.

Parameter

- Material: SPCC cold rolled steel.
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Capacity
NTVS1UX105	1U-10.5" DP	14Kg.[30Lb]
NTVS1UX12	1U-12" DP	16Kg.[35Lb]
NTVS1UX15	1U-15" DP	23Kg.[50Lb]
NTVS1UX18	1U-18" DP	26Kg.[56Lb]
NTVS2UX105	2U-105" DP	16Kg.[35Lb]
NTVS2UX12	2U-12" DP	18Kg.[39Lb]
NTVS2UX15	2U-15" DP	24Kg.[52Lb]
NTVS2UX18	2U-18" DP	25Kg.[54Lb]

CABINETS FITTING SHELF

Keyboard With Mouse Panel (1U)

- Used for 19 inch network cabinet.
- Keyboard allowed maximum size 420X200MM.
- Keyboard and mouse are individually placed for convenient operation.

Parameter

- Material: SPCC cold rolled steel.
- Color: RAL7035
RAL9004

Main part:

Model No.	Description	Use
NTMKS1UX18	Keyboard & mouse shelf	600~800MM cabinet

Keyboard With Mouse Panel (2U)

- Used for 19 inch network cabinet.
- Keyboard allowed maximum size 450X200MM.
- Keyboard and mouse are individually placed for convenient operation.

Parameter

- Material: SPCC cold rolled steel.
- Color: BLACK

Main part:

Model No.	Use
NTMKD2X18	800~1000MM cabinet



Sliding Adjustable Shelf (1U)

- Used for 19 inch network cabinet.

Parameter

- Static load capacity: 30 Kg [66Lb]
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004

Main part:

Model No.	Description	Shelf size MM		Use
		Width	Depth	
NTVS1UX14ADJ	350 type	440	350	600~800MM cabinet
NTVS1UX26ADJ	550 type	440	550	900~1100MM cabinet



CABINETS FITTING PANEL/BRACKETS

L Brackets

- Only for 19" cabinet and wall box, install from side.

Parameter

- Static load capacity: 15 Kg [33Lb]
- Material: SPCC cold rolled steel.
Color: RAL7035
RAL9004



Main part:

Model No.	Description	Length	Use
NTLB45	45 type	300	450MM wall box
NTLB66	66 type	450	600MM wall box
NTLB66	60 type	320	600MM cabinet
NTLB80	80 type	520	800MM cabinet
NTLB90	90 type	620	900MM cabinet
NTLB10	10 type	720	1000MM cabinet

Solid Filler Panel

- Compatible with 19 inch network cabinet, cover the blank position.

Parameter

- Material: SPCC cold rolled steel.
- Color: RAL7035
RAL9004



Main part:

Model No.	Description	Size MM	
		Width	Depth
NT-SBP-1U	1U	482	44
NT-SBP-2U	2U	482	88
NT-SBP-3U	3U	482	132.5
NT-SBP-4U	4U	482	177

CABINETS FITTING CABLE MANAGEMENT

NTCM5RIU

Nitrotel 1u cable manager 5 rings.



NTCMFIU

Nitrotel 2u horizontal cable manager.



NTCMF2U

Nitrotel 2u horizontal cable manager



NTCMFB2U

Nitrotel horizontal double side cable organizer



NTBRPIU

Nitrotel Brush panel.



CABINETS FITTING SCREWS & NUTS

10-32 Screws With Cushion



Parameter

- Phillips
- Color: BLACK

Main part:

Model No.	Packs of
NTS10-32	100

M6 Screws & Nuts



Parameter

- Phillips
- Color: Zinc-plated

Main part:

Model No.	TYPE	Packs of
NTKFS-16X20	Phillips	20

M6 Cushion



Parameter

- Used for M6 screws
- Material: ABS
- Color: BLACK

Main part:

Model No.	Packs of
NTCM6	50

T30 Trox Tool



Parameter

- Used for M6 screws
- Size: ϕ 5.5*33*120
- Color: Zinc-plated

Main part:

Model No.	Packs of
7NTTT30	10

CABINETS FITTING ACCESSORIES

Earthing Kit



Parameter

- ROHS complied
- 14 AWG, 300MM length

Main part:

Model No.	Packs of
NTGWK01	2

Earthing Kit



Parameter

- ROHS complied
- 14 AWG, 300MM length

Main part:

Model No.	Packs of
NTGWK02	2

Castor



Parameter

- Static load capacity: 250kg
- Color: black/ Zinc-plated

Main part:

Model No.	Type of Wheel	Packs of
NTCF20	2.0 INCH	4
NTCF25	2.5 INCH	4
NTCF30	3.0 INCH	4

Castor With Braking



Parameter

- Static load capacity: 250kg
- Color: black/ Zinc-plated

Main part:

Model No.	Type of Wheel	Packs of
NTCFB20	2.0 INCH	4
NTCFB25	2.5 INCH	4
NTCFB30	3.0 INCH	4

CABINETS FITTING PLINTH/DRAWER

Plinth

Parameter

- Only for Nitrotel 19" cabinet,
- Static load capacity: 1000 Kg.[2200Lb]
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004

Main part:

Model No.	Shelf size MM			Use
	Width	Depth	Height	
NTPL66S	600	600	100	Spark cabinet
NTPL68S	600	800	100	Spark cabinet
NTPL69S	600	900	100	Spark cabinet
NTPL61S	600	1000	100	Spark cabinet
NTPL86S	800	600	100	Spark cabinet
NTPL88S	800	800	100	Spark cabinet
NTPL66N	600	600	100	Network cabinet
NTPL68N	600	800	100	Network cabinet
NTPL69N	600	900	100	Network cabinet
NTPL61N	600	1000	100	Network cabinet
NTPL86N	800	600	100	Network cabinet
NTPL88N	800	800	100	Network cabinet



Drawer

Parameter

- Used for 19 inch network cabinet and rack.
- Static load capacity: 35kg
- Sliding shelf could elongate to 450MM
- Material: SPCC cold rolled steel
- Color: RAL7035
RAL9004

Main part:

Model No.	Description
NTDR2UX18	2U-18" DP
NTDR3UX18	3U-18" DP



CABINETS FITTING LOCK

Lock With Comfort Handle

Parameter

- Used for Nitrotel cabinet door
- Thickness of lock:30MM
- Hole size:126X24.5MM
- Color: BLACK

Main part:

Model No.	Packs of
NTSHL	3



3-Points Lock

Parameter

- Used for Nitrotel cabinet door
- Thickness of lock:20MM
- Hole size:Φ19X16.5MM

Main part:

Model No.	Packs of
NT3PL	50



M10 Adjustable Feet

Parameter

- Static load capacity: 250kg
- Color: black/ Zinc-plated

Main part:

Model No.	Height MM	Packs of
NTLFM10	100	4



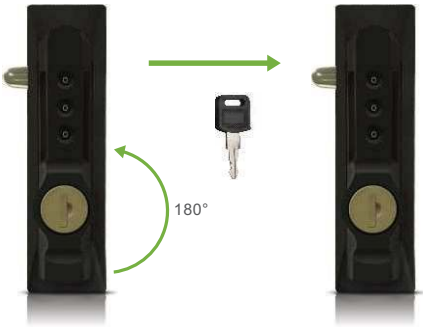
CABINETS FITTING LOCK

Swing Handle With Combination Lock

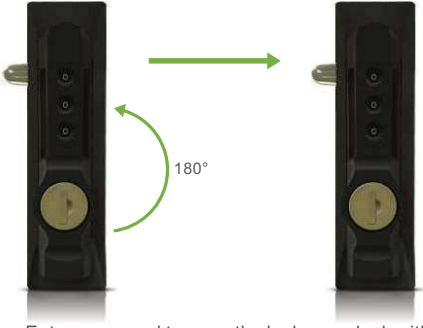
Product Description

- Main material and finish: Black PA housing, handle and knob, white zinc-plated steel cam and support.

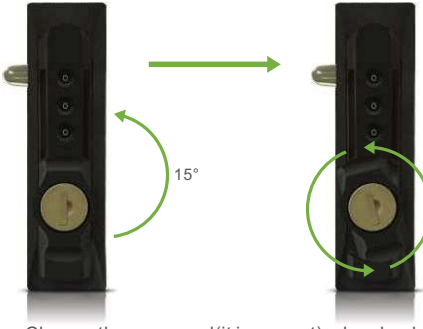
Product Drawing



Use key to open the lock,without password



Enter password to open the lock,open lock with password instead of key,original password:"0,0,0"



Change the password(it is correct),when knob indicates opening position,anti-clockwise rotation 15 degree to change the password

