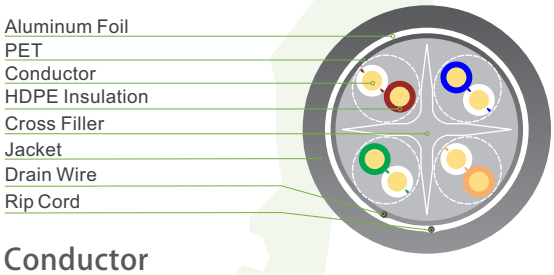
Nitrotel Manufacturing
Low Voltage Products & Fiber Optic

Part No.
NTNC6AXXFTP-X

PRODUCT DATA SHEET

F/UTP Shielded 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).

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 Impendance:Max10 mohms/m@100MHz.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.

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

Low density polyethylene (LDPE) is recommended for OSP applications. in those cases jacket color is always black for UV resistance and an additional PET layer is extruded over the cable foil for a better water-proof performance.

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.

RoHS compliant

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