

**PRODUCT DATA SHEET**

**F/UTP shielded CAT5e Twisted Pair Installation Cable**



**Standard**

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

**Application**

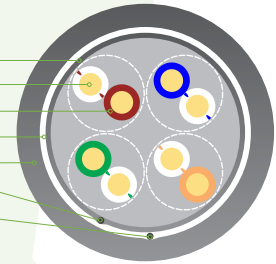
- Exceeds ANSI/TIA-568.2-D and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference 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 E477770.

**Electrical Characteristics**

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

**PET**

- Copper Conductor
- HDPE Insulation
- Aluminum Foil
- Jacket
- Drain Wire
- 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	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
R	CMR	6.3±0.2
L	LSZH	6.3±0.2
E	LDPE	6.3±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 (MHz)	RL (min) (dB)	IL(max) (dB/100m)	DOP(max) (ns/100m)	Delay Skew (max) (ns/100m)	NEXT (min) (dB)	PSNEXT (min) (dB)	ACR-F (min) (dB/100m)	PSACR-F (min) (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 under the conditions tested.

