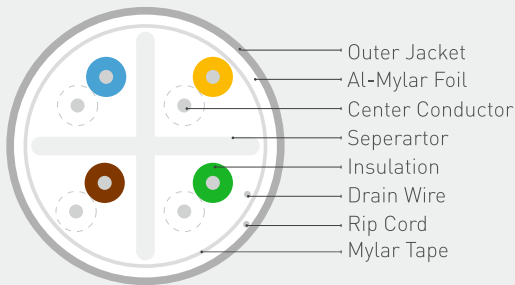
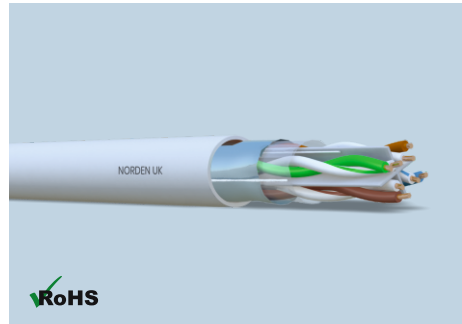


CATEGORY 6A F/UTP 4-PAIR PLENUM CABLE, CMP

Norden Category 6A F/UTP plenum(CMP) cables exceed Category 6A / Class E specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte applications to full 100 m. Extremely high pair-balance providing excellent EMC (Electro Magnetic compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/UTP cabling systems. F/UTP (Twisted Pair – overall Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D Category 6A
ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-5:2002 Category 6A
NFPA 70, NFPA 262

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	FEP
Nom. Thickness	0.25±0.05mm
Insulation Diameter	1.10±0.05mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Tape	PET
Drain Wire	24AWG Solid Tin Copper
Screening Material	Aluminium/Polyester Foil
Screening Design	100 % Coverage with 25% Overlapping
Total Number of Wires	8
Separator	FEP CROSSWEB
Rip Cord	Yes
Outer Jacket	Plenum PVC
Outer Jacket Thickness & Ex. Diameter	0.5mm, 7.4±0.30mm
Outer Jacket Colour	As Per Requirement
Marking	Per Requirement

CATEGORY 6A F/UTP 4-PAIR PLENUM CABLE, CMP

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100±15Ω
Coupling Attenuation	≥ 55 dB
Max. DC Resistance	9.38Ω/100m
Max. Resistance Unbalance	≤5%
Capacitance	≤5.6nF/ 100m
Capacitance Unbalance	1600pF/km
Propagation Delay Skew	45ns/100m
Velocity of propagation	≥67%
Dielectric Strength	DC-1KV/1 Min
Dielectric Strength to Shield	DC-1KV/1 Min
Voltage Rating	300V
Max. Tensile Strength - Short Term	110N
Min. Bend Radius	8*OD
Operating Temperature Range	-20°C to +75°C

TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS NEXT dB	RL dB	ACR-F dB	PS ACR-F dB
1	2.1	74.3	72.3	20.0	67.8	64.8
4	3.8	65.3	63.3	23.0	55.8	52.8
8	5.3	60.8	58.8	24.5	49.7	46.7
10	5.9	59.3	57.3	25.0	47.8	44.8
16	7.5	56.2	54.2	25.0	43.7	40.7
20	8.4	54.8	52.8	25.0	41.8	38.8
25	9.4	53.3	51.3	24.3	39.8	36.8
31.25	10.5	51.9	49.9	23.6	37.9	34.9
62.5	15.0	47.4	45.4	21.5	31.9	28.9
100	19.1	44.3	42.3	20.1	27.8	24.8
200	27.6	39.8	37.8	18.0	21.8	18.8
250	31.1	38.3	36.3	17.3	19.8	16.8
300	34.3	37.1	35.1	16.8	18.3	15.3
400	40.1	35.3	33.3	15.9	15.8	12.8
500	45.3	33.8	31.8	15.2	13.8	10.8

*Supplied cables meets Cat. 6a min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
114-18001204X	Category 6A F/UTP 4-Pair Plenum Cable, CMP	305m

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)