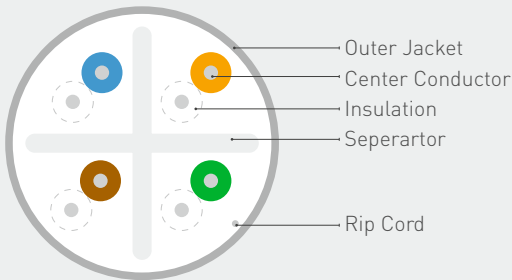
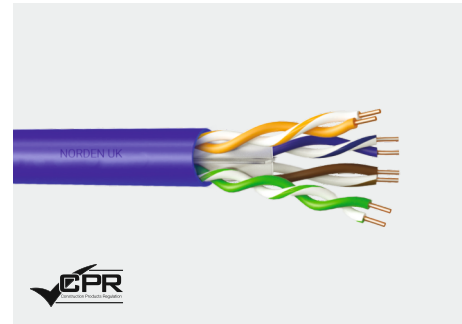


CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE HFFR

Norden Category 6A UTP cables exceed Category 6A / Class EA specifications. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m. Extremely high pair balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien cross talk performance to UTP(Unshielded Twisted Pair) cabling systems.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
 ANSI/TIA-568-C.2:2009 Category 6A
 ISO/IEC-11801, 2nd Edition Class EA
 IEC 61156-5:2002 Category 6A
 EN 50173-1, EN 60332-1-2
 EN 50267-2-3, EN 61034-2
CPR Compliance to B2ca-s1a,d1,a1
 EN 50575: 2014 + A1:2016

PRODUCT CLASSIFICATION

Product Sequence	Euro Class
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	PE
Insulation O.D.	1.03 mm nom.
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Outer Jacket Material	HFFR
Outer jacket Diameter	6.5 ± 0.20 mm
Outer Jacket Colour	Per requirement
Rip Cord	Yes

CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE HFFR

ELECTRICAL & MECHANICAL CHARACTERISTICS

Pulling Force	110 N/mm ² max.
Delay Skew	< 45 ns / 100 m
Characteristic Impedance	100 ± 5 Ω @ 100 MHz
DC Resistance	< 9.5 Ω / km
Resistance Unbalance	< 2% max.
Capacitance	< 60 pF / m
Cap. Unbalance (Wire to Ground)	1600 pF/Km
Velocity of Propagation (NVP)	66 %
Insulation Resistance	5000 MΩ x m
Transfer Impedance	N/A
Short Term Bend Radius	50 mm
Long Term Bend Radius	25 mm
Min. Impact	10 Impacts
Min. Crush Resistance	1000 N/10 cm
Max. Tensile Strength	90 N
Test Voltage	1000 V
Operating Voltage	125 V
Operating Temperature Range	-20°C to +70°C
Installation Temperature	0°C to +50°C

TRANSMISSION PERFORMANCE

Cat. 6A Un-screened Pair Horizontal Cables*

Freq. MHz	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return Loss (dB)
1	2.0	95.0	92.0	90.0	87.0	100	97.0	25.0
4	3.6	95.0	92.0	90.0	87.0	100	97.0	25.0
10	5.4	95.0	92.0	85.0	82.0	90.0	87.0	28.0
100	18.3	87.0	84.0	75.0	72.0	75.0	72.0	25.0
200	25.0	87.0	84.0	75.0	72.0	70.0	67.0	25.8
250	29.1	85.0	82.0	52.0	49.0	65.0	62.0	23.0
400	37.4	75.0	72.0	41.0	48.0	55.0	52.0	23.0
500	41.5	75.0	72.0	30.0	27.0	55.0	52.0	21.0

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

ORDERING INFORMATION

Part Number	Description	Standard Length
114-1000R104X	CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE HFFR B2ca	305 mtr

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

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
114-1000R104X	Plywood Reel/Ctn	15.0	16.8	340 x 340 x 340