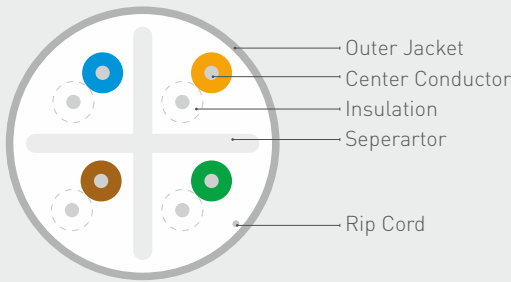
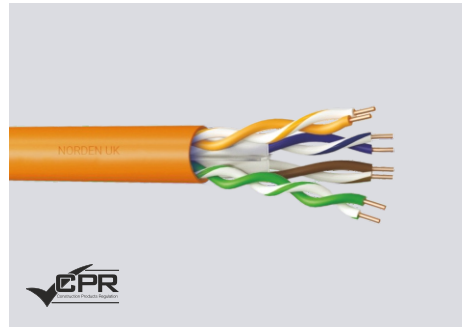


CATEGORY 6 U/UTP 23 AWG 4 PAIR CABLE HFFR

Norden Category 6 UTP cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m. Norden Category 6 UTP cables are CPR Compliance to B2ca-s1a,d1,a1. 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.af, IEEE 802.3at for PoE applications
 ANSI/TIA-568-C.2 Category 6
 ISO/IEC-11801, Class E / IEC 61156-5: Category 6
 EN 60332-1-2, EN 50267-2-3, EN 61034-2
 EN 50173-1, EN 50288-6-1
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 Diameter	1.02±0.03 mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Outer Jacket	HFFR
Outer Jacket Diameter	6.0 ± 0.20 mm

CATEGORY 6 U/UTP 23 AWG 4 PAIR CABLE HFFR

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 Ω ± 5 @ 100 MHz
DC Resistance	< 9.5 Ω / km
Max. Resistance Unbalance	< 2 %
Capacitance	< 60 pF / m
Capacitance Unbalance	1600 pF / km
Propagation Delay Skew	< 45 ns/100m
Velocity of Propagation	66 %
Min. Insulation Resistance	5000 MΩ x m
Short Term Bend Radius	50 mm
Long Term Bend Radius	25 mm
Min. Crush Resistance	1000 N/10 cm
Max. Tensile Strength	90 N
Min. Impact	10 Impacts
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. 6 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	83.0	80.0	85.0	82.0	83.0	80.0	25.0
4	3.6	73.0	70.0	70.0	67.0	70.0	67.0	31.0
10	6.0	73.0	70.0	65.0	62.0	60.0	57.0	30.0
100	19.5	55.0	52.0	40.0	37.0	35.0	32.0	25.0
200	28.5	50.0	47.0	25.0	22.0	30.0	27.0	22.8
250	32.0	45.0	42.0	25.0	22.0	22.0	19.0	22.0
300	33.0	40.0	37.0	15.0	12.0	20.0	17.0	22.0
400	39.0	40.0	37.0	7.0	4.0	20.0	17.0	20.0

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

ORDERING INFORMATION

Part Number	Description	Standard Length
113-1000R104X	CATEGORY 6 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)
113-1000R104X	Pulley Box	12.0	13.0	400 x 400 x 220