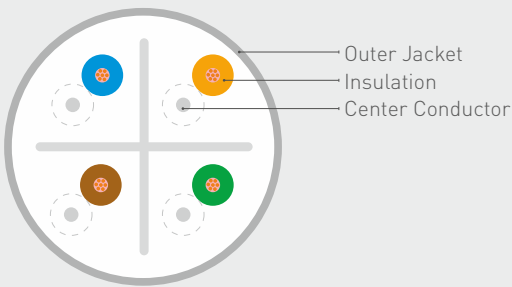
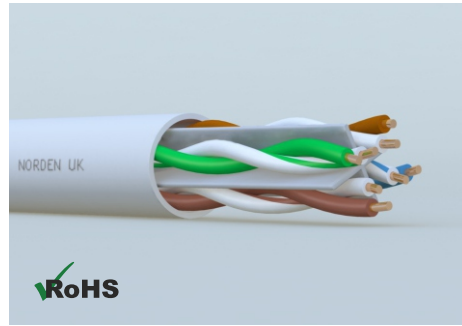


CATEGORY 6 U/UTP 4 PAIR CCA CABLE

The Norden Category 6 UTP CCA cable is designed to meet Category 6 / Class E performance requirements, supporting data transmission up to 250 MHz and suitable for Gigabit Ethernet 1000Base-T and 1000Base-Tx applications up to 100 m. The cable uses Copper Clad Aluminium conductors, providing a cost-effective solution for standard networking installations where full copper performance is not essential. It maintains good pair balance for reliable EMC (Electro-Magnetic Compatibility), minimizing signal interference and ensuring stable transmission performance.



COMPLIANCE

IEEE 802.3af, IEEE 802.3at for PoE applications
ANSI/TIA-568.2-D Category 6
ISO/IEC-11801, Class E / IEC 61156-5: Category 6

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Copper Clad Aluminum, CCA(Copper content \geq 20%)
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	HDPE
Nom. Thickness	0.18mm
Insulation Diameter	0.89 \pm 0.1mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Separator	Yes
Rip Cord	Yes
Outer Jacket	PVC
Outer Jacket Thickness & Ex.Diameter	0.8mm, 6.0 \pm 0.20mm
Outer Jacket Colour	Grey, As Per Requirement
Marking	As Per Requirement

CATEGORY 6 U/UTP 4 PAIR CCA CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 ± 15 Ω
Coupling Attenuation	≤51dB
DC Resistance	18.5Ω/100m
Max. Resistance Unbalance	≤2%
Capacitance	≤5nF/ 100m
Capacitance Unbalance	≤4%
Propagation Delay Skew	45ns/100m
Velocity of propagation	62.2%
Dielectric Strength	DC-1KV/1 Min
Max.Tensile Strength - Short Term	13.5MPa
Tensile Strength	Sheath ≥13.5 MPa, Insulation ≥16 MPa
Elongation at Break	Sheath ≥150%, Insulation ≥ 300%
Conductor Elongation at Break	≥15%
Installation Bending Radius	>80D
Operating Temperature Range	-20°C to +60°C

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. Mhz	Insertion Loss (dB)	NEXT (dB)	RL (dB)	ACR-N (dB)	ACR-F (dB)	PS NEXT (dB)	PS ACR-N (dB)	PS ACR-F (dB)
1	3.0	65.0	19.0	62.0	63.3	62.0	59.0	60.3
4	4.0	63.0	19.0	59.0	51.2	60.5	56.5	48.2
8	5.7	58.2	19.0	52.5	45.2	55.6	49.9	42.2
10	6.3	56.6	19.0	50.2	43.3	54.0	47.7	40.3
16	8.0	53.2	18.0	45.2	39.2	50.6	42.6	36.2
20	9.0	51.6	17.5	42.6	37.2	49.0	39.9	34.2
25	10.1	50.0	17.0	39.9	35.3	47.3	37.2	32.3
31	11.4	48.4	16.5	37.0	33.4	45.7	34.3	30.4
63	16.5	43.4	14.0	26.9	27.3	40.6	24.1	24.3
100	21.3	39.9	12.0	18.6	23.3	37.1	15.8	20.3
200	31.5	34.8	9.0	3.3	17.2	31.9	0.3	14.2
250	35.9	33.1	8.0	-2.8	15.3	30.2	-5.8	12.3

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

ORDERING INFORMATION

Part Number	Description	Standard Length
130-10001104X	Category 6 U/UTP 4 Pair CCA Cable	305 mtr