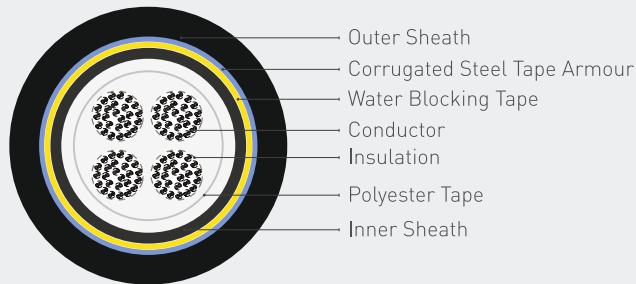
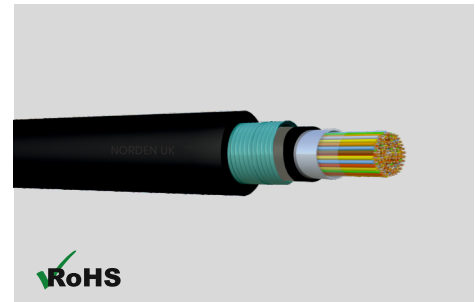


CATEGORY 3 U/UTP ARMoured CABLE

Norden Category 3 U/UTP Armoured Cable exceeds Category 3/Class C specification. It is tested up to 16 MHz frequency range. These cables are used for voice and data communications and can handle application bandwidths up to 16 MHz.



COMPLIANCE

ISO/IEC11801, TIA-568-C.2

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Copper
Conductor Diameter	0.50 ± 0.01 mm
Insulation Material	HDPE
Insulation Diameter	0.87 ± 0.05 mm
Ripcord	No
Drain Wire	No
Shielding / Wrapping Material	Polyester Tape
Inner Sheath Material	LDPE
Inner Sheath Thickness	1.2 mm
Inner Sheath Colour	Black
Armour	Corrugated Steel Tape
Outer Sheath Material	LDPE
Outer Sheath Thickness	1.6 ± 0.2 mm
Outer Sheath Colour	Black
External O.D.	24.6 ± 2.0 mm

INSULATION COLOR CODE

Pair No.	Wire A Colour	Wire B Colour
1	White/Blue	Blue/White
2	White/Orange	Orange/White
3	White/Green	Green/White
4	White/Brown	Brown/White
5	White/Grey	Grey/White
6	Red/Blue	Blue/Red
7	Red /Orange	Orange/Red
8	Red /Green	Green/Red
9	Red /Brown	Brown/Red
10	Red /Grey	Grey/Red
11	Black /Blue	Blue/Black
12	Black /Orange	Orange/Black
13	Black /Green	Green/Black

Pair No.	Wire A Colour	Wire B Colour
14	Black /Brown	Brown/Black
15	Black /Grey	Grey/Black
16	Yellow /Blue	Blue/ Yellow
17	Yellow /Orange	Orange/ Yellow
18	Yellow /Green	Green/ Yellow
19	Yellow /Brown	Brown/ Yellow
20	Yellow /Grey	Grey/ Yellow
21	Violet /Blue	Blue/ Violet
22	Violet /Orange	Orange/ Violet
23	Violet /Green	Green/ Violet
24	Violet /Brown	Brown/ Violet
25	Violet /Grey	Grey/ Violet



CATEGORY 3 U/UTP ARMoured CABLE

ELECTRICAL, MECHANICAL & TRANSMISSION CHARACTERISTICS

Max. Conductor DC Resistance	9.5 Ω/100m @ 20°C
DC Conductor Resistance Unbalance	5.0 % max
Dielectric Strength between pair	DC 1000V 1 min
Insulation Resistance	≥ 5000 MΩ.km
Max. pair Mutual Capacitance	56 nF/km at 1 kHz
Impedance (1 to 16 Mhz)	100 ± 15 Ω
Before Tensile Strength (Mpa)	≥ 10.0
Aging Elongation (%)	≥ 350
After Tensile Strength (Mpa)	10.0
Aging Elongation (% of unaged)	≥ 300
Cold Bend (-20+/- Degree Celsius x 4 hrs)	No visible cracks
Operating Temperature Range	-40°C to +75°C
Min. Bend Radius	20 x O.D
Delay Skew	≤ 45 ns/100m @ 20°C

ELECTRICAL PERFORMANCE CHARACTERISTICS

Freq. (MHz)	RL (≥dB)	ATT (≤dB)	NEXT (≥dB)	DELAY (≤ns)	PSNEXT (≥dB)	ELFEXT (≥dB)	PSELFEXT (≥dB)
1	12.0	2.6	41.3	570.00	41.3	39.0	39.0
4	12.0	5.6	32.3	552.00	32.3	26.9	26.9
8	12.0	8.5	27.8	546.73	27.8	20.9	20.9
10	12.0	9.7	26.3	545.38	26.3	19.0	19.0
16	9.95	13.1	23.3	543.00	23.3	14.9	14.9

ORDERING INFORMATION

Part Number	Description
111-208NK1100X	Category 3 U/UTP 100 Pair Double Jacket Steel Tape Armoured Cable