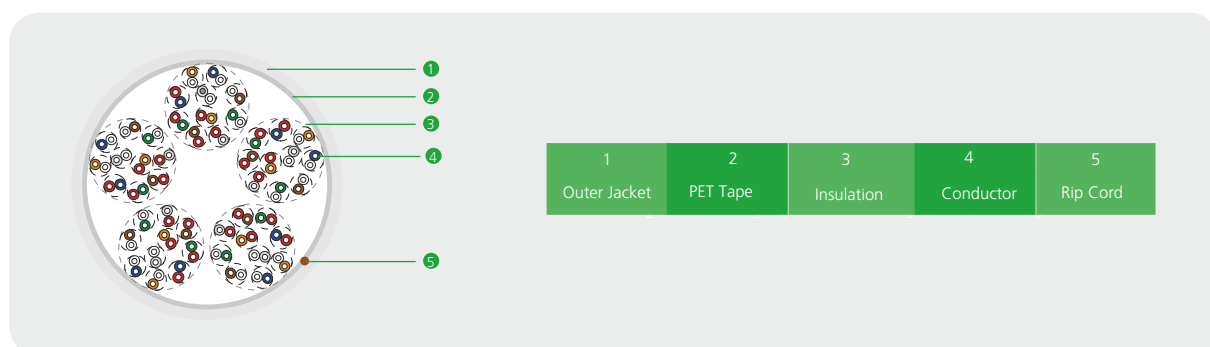
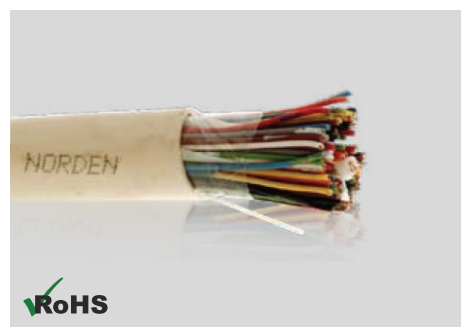


CATEGORY 3 U/UTP CABLE

Norden Category 3 U/UTP 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. Other uses for these cables include indoor use on customer premises for the interconnection of telephone key systems, PBX and intercom systems.



COMPLIANCE

TIA/EIA 568-B.2 & ISO/IEC 11801
UL 444

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	24 AWG
Conductor Diameter	0.5 mm +/-0.015 mm
Conductor Construction	Solid
Insulation Material	PE
Insulation Outer Diameter	0.85 mm +/-0.05
Wrapping material	PET Tape
Outer Sheath Thickness	0.7 +/-0.05
Outer Sheath Material	PVC / LSZH

INSULATION COLOR CODE

Pair No.	Wire A Colour	Wire B Colour	Pair No.	Wire A Colour	Wire B Colour
1	White/Blue	Blue/White	16	Yellow /Blue	Blue/ Yellow
2	White/Orange	Orange/White	17	Yellow /Orange	Orange/ Yellow
3	White/Green	Green/White	18	Yellow /Green	Green/ Yellow
4	White/Brown	Brown/White	19	Yellow /Brown	Brown/ Yellow
5	White/Grey	Grey/White	20	Yellow /Grey	Grey/ Yellow
6	Red/Blue	Blue/Red	21	Violet /Blue	Blue/ Violet
7	Red /Orange	Orange/Red	22	Violet /Orange	Orange/ Violet
8	Red /Green	Green/Red	23	Violet /Green	Green/ Violet
9	Red /Brown	Brown/Red	24	Violet /Brown	Brown/ Violet
10	Red /Grey	Grey/Red	25	Violet /Grey	Grey/ Violet
11	Black /Blue	Blue/Black	26	Pink /Blue	Blue/ Pink
12	Black /Orange	Orange/Black	27	Pink /Orange	Orange/ Pink
13	Black /Green	Green/Black	28	Pink /Green	Green/ Pink
14	Black /Brown	Brown/Black	29	Pink /Brown	Brown/ Pink
15	Black /Grey	Grey/Black	30	Pink /Grey	Grey/Pink

CATEGORY 3 U/UTP CABLE

ELECTRICAL, MECHANICAL & TRANSMISSION CHARACTERISTICS

Max. Conductor DC Resistance	≤95 Ω/km
Unbalance of Pair DC Resistance	≤5 %
Dielectric Strength between pair	DC1.0 kV/min
Min. Insulation Resistance	5000 MΩ./km
Max. pair Mutual Capacitance	6.6 nF/100m
Impedance [1 to 16 MHz]	100 Ω +/- 15
Before Tensile Strength [Mpa]	≥ 13.8
Aging Elongation [%]	≥ 100
After Tensile Strength [% of unaged]	≥ 85
Aging Elongation [% of unaged]	≥ 50
Cold Bend [-20+/- degree Celcius x 4 hrs)	No crack
Operating Temperature Range	-20 to 60 degree Celcius
Min. Bend Radius	8xD

ELECTRICAL PERFORMANCE CHARACTERISTICS

Freq. (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	RL (dB)
1	2.6	41.3	12.0
4	5.6	32.2	12.0
8	8.5	27.7	12.0
10	9.71	26.3	12.0
16	13.10	23.2	10.0

Part Number	Description	Max. Overall Diameter (+/- 1mm)
111-100011002X	Category 3 U/UTP 002 Pair Cable PVC	3.9 mm
111-100011005X	Category 3 U/UTP 005 Pair Cable PVC	5.9 mm
111-100011010X	Category 3 U/UTP 010 Pair Cable PVC	6.3 mm
111-100011025X	Category 3 U/UTP 025 Pair Cable PVC	9.0 mm
111-100011050X	Category 3 U/UTP 050 Pair Cable PVC	13.8 mm
111-100011100X	Category 3 U/UTP 100 Pair Cable PVC	19.0 mm
111-100011200X	Category 3 U/UTP 200 Pair Cable PVC	26.6 mm
111-100011300X	Category 3 U/UTP 300 Pair Cable PVC	32.2 mm
111-100011400X	Category 3 U/UTP 400 Pair Cable PVC	36.9 mm
111-100012002X	Category 3 U/UTP 002 Pair Cable LSZH	3.9 mm
111-100012005X	Category 3 U/UTP 005 Pair Cable LSZH	5.9 mm
111-100012010X	Category 3 U/UTP 010 Pair Cable LSZH	6.3 mm
111-100012025X	Category 3 U/UTP 025 Pair Cable LSZH	9.0 mm
111-100012050X	Category 3 U/UTP 050 Pair Cable LSZH	13.8 mm
111-100012100X	Category 3 U/UTP 100 Pair Cable LSZH	19.0 mm
111-100012200X	Category 3 U/UTP 200 Pair Cable LSZH	26.6 mm
111-100012300X	Category 3 U/UTP 300 Pair Cable LSZH	32.2 mm
111-100012400X	Category 3 U/UTP 400 Pair Cable LSZH	36.9 mm

Color: GY(Grey), CR(Cream) & BK(Black)