



# Northern Link® Nova 550 Category 6, 4-Pair, U/UTP Cable CMR, AWG 23

## Product Part Number

N017.UU1KCRXX

## Product Description

Northern Link® Nova 550 Category 6 U/UTP cables have been specifically engineered and thoroughly tested to meet the highest industry standards, ensuring that it consistently delivers 1 Gbps performance to the workstation. Furthermore, Northern Link®'s CAT6 cables are supplied in "Reelex II" packaging, which facilitates fast and snag-free installation. This packaging design eliminates tangles and snarls during installation, saving you time and ensuring a smooth installation process.

## Applicable Standards

### Electrical Transmission

- ANSI/TIA-568.2-D:2018
- ISO/IEC 11801-1:2017 (Ed. 1.0)
- IEC 61156-5:2020 (Ed. 3.0)

### Flame Test

- UL 1666 (CMR)

### Material and Construction

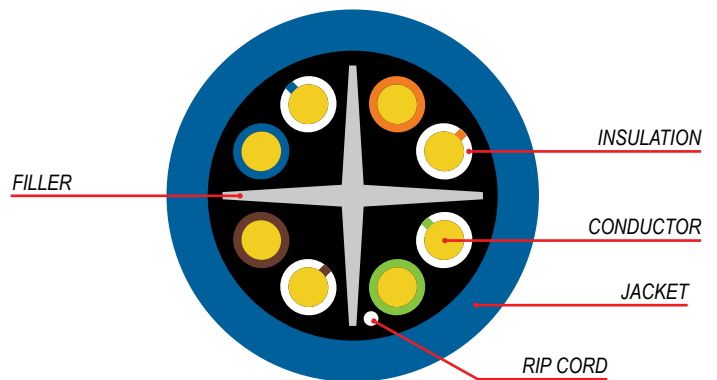
- UL 444
- UL 444 LP-Rating 0.5A
- CSA 22.2 NO.214

**EU Directive 2011/65/EU & 2015/863/EU  
EU Directive 2006/95/EC (LVD)**

## Product Features

- High Performance of transmission exceeding Category 6 specifications
- Sweep Frequency up to 550 MHz
- AWG 23, Solid Bare Copper
- Flame Retardant PVC
- Comes with Cross Filler and Rip Cord
- Reelex II Design for easy to pull out.
- 25-Year System Warranty

## Sectional Diagram



## Application

- Transmission of digital signal and analogue for data, video, and audio applications
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX, and legacy speeds
- CDDI /ATM/ Token Ring
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+) and IEEE 802.3bt (PoE++)





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## Material Specification

Conductor	Material	AWG23 Solid Bare Copper	
Insulation	Material	Polyolefin (PO)	
	Colour Code & Diameter	Blue & white/blue stripe	0.97 ± 0.02 mm
		Orange & white/orange stripe	0.93 ± 0.02 mm
		Green & white/green stripe	0.96 ± 0.02 mm
		Brown & white/brown stripe	0.93 ± 0.02 mm
Filler	Material	Polyolefin (PO)	
Rip Cord	Material	Polyester multi-yarn	
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	5.9 ± 0.2 mm	
	Thickness	0.50 ± 0.05 mm	

## Environmental Specification

Temperature Range	Storage & Shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 75°C
Minimum Bending Radius	≥ 4 times of overall diameter	
Maximum Pulling Tension	≤ 110 N	

## Physical & Electrical Characteristics (at 20°C)

Spark Test	2.5 KV DC
AC Leakage Current Through Jacket	≤ 10mA (1.5 KV AC)
Cable Cold Bend	-20°C for 4hr
Conductor DC Resistance	≤ 9.38 Ω/100m
Resistance Unbalance	≤ 5%
Dielectric Strength	1.5 KV ac for 2s
Insulation Resistance	≥ 5000 MΩ•km
Mutual Capacitance	≤ 5.6 nF/100m
Capacitance Unbalance Pair-to-ground	≤ 330 pF/100m





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## Transmission Performance (at 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	2.03	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00	45.00
4	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00	
8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73	
10	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38	
16	7.55	56.24	54.24	48.68	46.68	43.72	40.72	25.00	543.00	
20	8.47	54.78	52.78	46.31	44.31	41.78	38.78	25.00	542.05	
25	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541.20	
31.25	10.67	51.88	49.88	41.20	39.20	37.90	34.90	23.64	540.44	
62.5	15.38	47.36	45.36	31.98	29.98	31.88	28.88	21.54	538.55	
100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60	
150	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	536.94	
200	28.98	39.78	37.78	10.80	8.80	21.78	18.78	18.00	536.55	
250	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28	
300	36.43	37.14	35.14	0.72	N.A.	18.26	15.26	16.77	536.08	
350	39.79	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92	
400	42.97	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80	
450	46.01	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70	
500	48.94	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61	
550	51.76	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54	

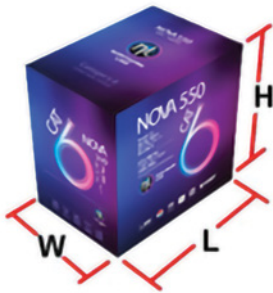
Values above 250 MHz are for information only.



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## Shipping Information

Item	Dimension	Nominal Net Weight
Cable	305m	11.88 kg (26.19 lbs.)
Reelx II Carton	L395 x W270 x H380 mm	1140 gm



## Ordering Information

N017.UU1KCRBU	Northern Link® Nova 550 Category 6, 4-Pair, U/UTP Cable CMR, AWG 23, Blue
N017.UU1KCRWH	Northern Link® Nova 550 Category 6, 4-Pair, U/UTP Cable CMR, AWG 23, White