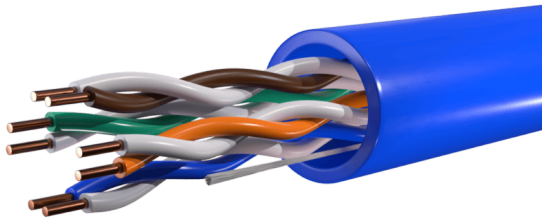




Northern Link® Nova 350 Cat 5e, 4-Pair, U/UTP Cable CMR, AWG 24



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
- CSA 22.2 NO.214

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

Product Part Number

N016.UU1KCRXX

Product Description

Northern Link® Nova 350 Category 5e 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 Cat 5e 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.

Product Features

- High-Speed Performance : Supports 1 Gbps for reliable data transmission over short to medium distances.
- 350 MHz Bandwidth : Ideal for Ethernet, VoIP, and video.
- 24 AWG Solid Copper : Better signal strength and lower attenuation.
- U/UTP Design : Reduces crosstalk and EMI, offers flexibility.
- CMR Rated : Fire-resistant, low-smoke material for safe use in riser spaces (UL 1666).
- Ripcord Feature : Quick cable stripping, reduces install time.
- Reelex II Packaging : Tangle-free pull box for easy dispensing.
- TIA-568.2-D Compliant : Ensures network compatibility and future-proofing.

Applications

- Transmission of digital signal and analogue for data, video, and audio applications
- IEEE 802.3u 100BASE-T and legacy speeds
- CDDI /ATM/ Token Ring
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+)

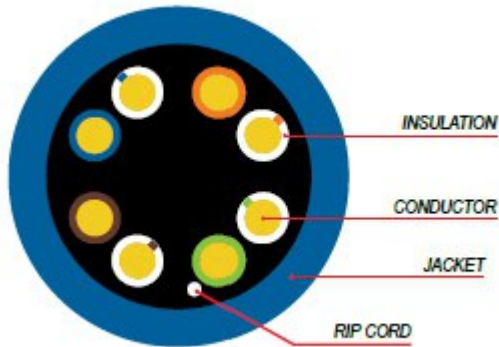




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Sectional Diagram



Material Specifications

Conductor	Material	AWG24 Solid Bare Copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue stripe	0.87 ± 0.02 mm
		Orange & white/orange stripe	0.86 ± 0.02 mm
		Green & white/green stripe	0.87 ± 0.02 mm
		Brown & white/brown stripe	0.86 ± 0.02 mm
Rip cord	Material	Polyester multi-yarn	
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	4.8 ± 0.2 mm	
	Thickness	0.50 ± 0.05 mm	





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Environmental Specifications

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 75°C

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 Max. dB/100m	NEXT Min. dB/100m	PS.NEXT Min. dB/100m	ACR Min. dB/100m	PS.ACR Min. dB/100m	ACRF Min. dB/100m	PS.ACRF Min. dB/100m	RL Min. dB/100m	Propagation Delay Max. ns/100m	Delay Skew Max. ns/100m
1	2.04	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00	45.00
4	4.05	56.27	53.27	52.22	49.22	51.76	48.76	23.01	552.00	45.00
8	5.77	51.75	48.75	45.99	42.99	45.74	42.74	24.52	546.73	45.00
10	6.47	50.30	47.30	43.83	40.83	43.80	40.80	25.00	545.38	45.00
16	8.25	47.24	44.24	38.99	35.99	39.72	36.72	25.00	543.00	45.00
20	9.27	45.78	42.78	36.52	33.52	37.78	34.78	25.00	542.05	45.00
25	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20	45.00
31.25	11.72	42.88	39.88	31.15	28.15	33.90	30.90	23.64	540.44	45.00
62.5	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.54	538.55	45.00
100	21.98	35.30	32.30	13.33	10.33	23.80	20.80	20.11	537.60	45.00
150	27.54	32.66	29.66	5.11	2.11	20.28	17.28	18.87	536.94	45.00
200	32.42	30.78	27.78	N.A.	N.A.	17.78	14.78	18.00	536.55	45.00
250	36.85	29.33	26.33	N.A.	N.A.	15.84	12.84	17.32	536.28	45.00
300	40.97	28.14	25.14	N.A.	N.A.	14.26	11.26	16.77	536.08	45.00
350	44.85	27.14	24.14	N.A.	N.A.	12.92	9.92	16.30	535.92	45.00

Values above 100 MHz are for information only.

Ordering Information

N016.UU1KCRBU	Northern Link® Nova 350 Category 5e, 4-Pair, U/UTP Cable CMR, AWG 24, Blue
N016.UU1KCRWH	Northern Link® Nova 350 Category 5e, 4-Pair, U/UTP Cable CMR, AWG 24, White





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Shipping Information

Item	Dimension	Nominal Net Weight
Product	L305m	8.51 kg (18.75 lbs.)
Packaging	L353mm W240mm H341mm	890gm

