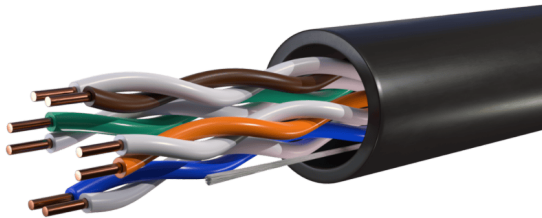




Nova Outdoor Cat 5e, 4-Pair, U/UTP Cable CMX, AWG 24 (UV Resistant)



Applicable Standards

- **TIA/EIA-568.2-D** (Commercial Building Telecommunications Cabling Standard)
- **ISO/IEC 11801 Class D** (International Cabling Standard)
- **UL 444** (Safety Standard for Communications Cables)
- **ANSI/ICEA S-90-661** (Category 5e Performance Requirements)
- **RoHS Compliant** (Environmentally Friendly, Lead-Free)
- **CMX Rated** (Outdoor/Residential Use, UV and Weather Resistant)

Product Part Number

N016.UU1KCXBK

Product Description

Nova Outdoor Cat 5e CMX cable is designed for reliable data transmission in outdoor environments. Its UV-resistant jacket ensures durability against sun exposure, moisture, and extreme temperatures, making it ideal for outdoor networking applications. This high-performance cable supports Gigabit Ethernet, PoE applications, and long-distance networking with minimal signal loss.

Product Features

- **Outdoor-Rated** : UV-resistant and weatherproof jacket for extended durability
- **CMX Rated** : Designed for outdoor and residential installations
- **Gigabit Ethernet Support** : 10/100/1000BASE-T network compatibility
- **PoE & PoE+ Ready** : Supports power over Ethernet for outdoor devices
- **24 AWG Solid Copper Conductors** : Ensures excellent signal integrity and electrical performance.
- **High-Quality Transmission** : Reduced crosstalk and interference for stable performance
- **RoHS Compliant** : Meets industry standards for safety, reducing harmful substances for a greener, more sustainable product.

Applications

- **Ethernet (10/100/1000BASE-T)** – Reliable wired networking
- **PoE & PoE+** – Power devices like cameras & APs
- **Outdoor Surveillance** – IP cameras & security systems
- **Wireless Backhaul** – Connect outdoor Wi-Fi access points
- **Industrial Networks** – Harsh environment networking
- **Direct Burial & UV Exposure** – Rugged outdoor use





Nova Outdoor Cat 5e, 4-Pair, U/UTP Cable CMX, AWG 24 (UV Resistant)

Material Specifications

Conductor	Material	AWG24 Solid Bare Copper
	Nominal OD (mm)	0.490 ± 0.005
Insulation	Material	HDPE
	Diameter (mm)	0.87 ± 0.05
	Color Coded Pairs	Blue / White with Blue stripe
		Orange / White with Orange stripe
		Green / White with Green stripe
Brown / White with Brown stripe		
Rip cord	Yes	
Jacket	Material	Polyvinyl chloride (PVC) - RoHS Compliant, CMX, UV Resistant
	Outer Diameter (mm)	5.0 ± 0.4
	Thickness (mm)	0.50 ± 0.05
	Color	Black

Environmental Specifications

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





Nova Outdoor Cat 5e, 4-Pair, U/UTP Cable CMX, AWG 24 (UV Resistant)

Physical & Electrical Characteristics (at 20°C)

Cold Bend Test	-20 ± 2°C for 4 hours Result : No visible cracks
Tensile Strength (Mpa) before Aging	≥ 13.5
Elongation(%) before Aging	≥ 150
Tensile Strength (Mpa) after Aging (Aging Period = 100 for 24hr for 7days)	≥ 12.5
Elongation(%)after Aging (Aging Period = 100 for 24hr for 7days)	≥ 125
Max. Cable Bend Radius	8 x Outer Diameter
Impedance(Ω) at 1.0 - 100.0 MHz	100 ± 15
Max. DC Resistance (Ω/100m)	≤ 9.5
Max. DC Conductor Resistance Unbalance (%)	≤ 5
Delay Skew (ns/100m) at 1.0 - 100.0 MHz	≤ 45
UV Resistant Test	UV Exposure Duration: 300 hours Result : Tensile Strength: ≥ 85% of original value ; Elongation: ≥ 85% of original value



Transmission Performance (at 20°C)

Frequency (MHz)	Attenuation	NEXT	PS.NEXT	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	Max. ns/100m	Max. ns/100m
1	2.0	65.3	62.3	63.8	60.8	20.0	570.00	45.00
4	4.1	56.3	53.3	51.8	48.8	23.0	552.00	45.00
8	5.8	51.8	48.8	45.7	42.7	24.5	546.73	45.00
10	6.5	50.3	47.3	43.8	40.8	25.0	545.38	45.00
16	8.2	47.2	44.4	39.7	36.7	25.0	543.00	45.00
20	9.3	45.8	42.8	37.8	34.8	25.0	542.05	45.00
25	10.4	44.3	41.3	35.8	32.8	24.3	541.20	45.00
31.25	11.7	42.9	39.9	33.9	30.9	23.6	540.44	45.00
62.5	17.0	38.4	35.4	27.9	24.9	21.5	538.55	45.00
100	22.0	35.3	32.3	23.8	20.8	20.1	537.60	45.00

Ordering Information

N016.UU1KCXBK	Nova Outdoor Category 5e, 4-Pair, U/UTP Cable CMX, AWG 24, Black (UV Resistant)
---------------	---

Shipping Information

Item	Dimension
Product	Length : 305m 1000ft