

LanPro Reliable® CAT 5e U/UTP Fig 8 Outdoor Network Cable with 1.2 mm Solid Messenger wire for 100m span, Gray CMX Jacket with AWG 24 solid copper conductors, 1000 ft Wood Spool.

LPCE000GRC2_SS_ENB01W

Characteristics

- With a Figure 8 structure, it withstands up to 100 m spans with a 1.2 mm Steel messenger wire that relieves the cable from stresses of installation and deformation due to being hanged between post or building to building premises.
- Exceeds all standards for CAT 5e communications cable.
- Extremely durable.
- Resistant to UV Rays.
- Gray CMX Jacket.
- For mast to building or building to building installation.
- Characterized up to 100 MHz.
- Operating voltage ≤ 48 Volt RMS.
- Meets UL VW-1 requirements(CMX).
- UL registered E329019.

Applications

- Outdoor cable runs to wireless Access Points (AP), Bridges or CPE.
- Outdoor cable runs to IP Video Surveillance Cameras.
- Inter-building networks.
- Ethernet, Phone, Paging, Alarm, Video and Power-over-Ethernet (PoE) Networks.
- The perfect Figure 8 CAT 5e cable for outdoor residential and commercial installations.



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LanPro manufactures high performance CAT 5e cables for outdoor usage. The external jacket is made of CMX with resistance to external agents like humidity, UV radiation and high temperatures resulting in a long lasting operation.

This cable is constructed with 4 unshielded twisted pairs TP of AWG 24 100% Copper conductors, yielding and U/UTP structure. All of these features make this cable highly recommended for outdoor service between buildings or from post to premises.

The Figure 8 structural design, withstanding up to 100 m spans due to a 1.2 mm Steel Messenger wire, relieves the cable from stresses of installation and deformation caused by being hung between mast and building or building to building during its entire operating life.

Outdoor CAT 5e cables from LanPro are approved as per the ISO/IEC11801 standard and following the TIA/EIA 568-C.2 specifications for Category 5e cables.

Used for Gigabit Ethernet 1000BASE-Tx, token-ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, (broadband, analog baseband), digital video and voice over IP (VoIP), it can also be used for IP video surveillance cameras.

Warning: the use of traditional indoor grade Category 5e cable in outdoor applications subjects it to rapid deterioration. Installation of indoor CAT 5e cable inside a conduit does not make it outdoor suitable either. Conduits filled with water will deteriorate the cable rapidly. Therefore, choosing a high quality outdoor (UV-rated) CAT 5e cable with CMX jacket and HDPE conductor insulation is extremely important. LanPro outdoor cables will avoid costly network outages, keeping network reliability high and maintenance costs low.

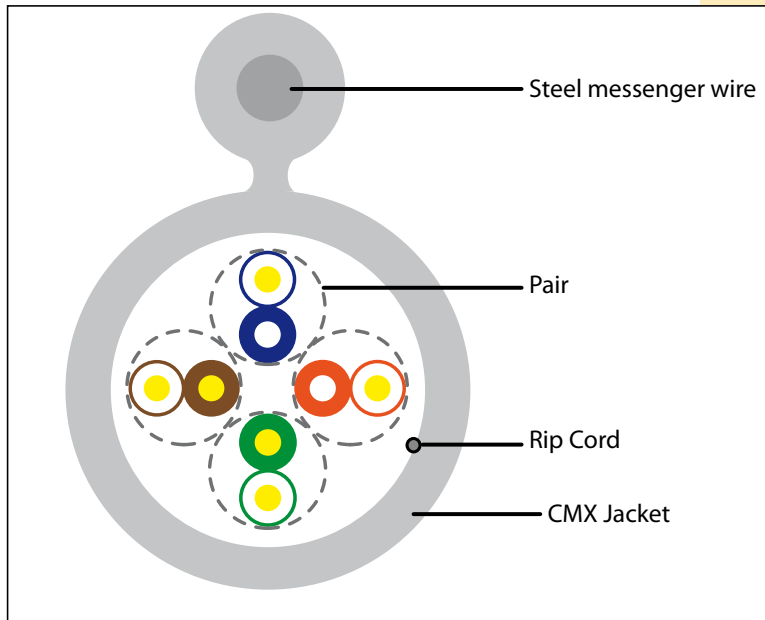
If the cable is not well made or UV-rated, it may snag when coming out of the box or spool, causing an installation breakdown or failure in sunlight over time. Wi-Fi towers and their installations MUST use this kind of product to avoid fast deterioration of the cabling set-up due to weather, dust, sun and rude environment.

LanPro has taken each aspect into consideration when designing this product, from its storage, installation, operation and its maintenance in order to deliver a cost effective solution to our customers.

B Technical Specifications:

Standards	ISO/IEC11801, TIA/EIA 568-C.2, UL VW-1 requirements, UL registered E329019		
1.- Conductor	Material	Copper 100%	
	AWG #	24	
	Nominal Diameter (mm)	0.50	Positive tolerance
Negative tolerance			-0.005
2.- Isolation layer	Material	HDPE	
	Diameter (mm)	0.9±0.02	
	Elongación	Min. 300%	
	Color	A- Blue, White-Blue	B- Orange, White-Orange
C- Green, White-Green		D- Brown, White-Brown	
3.- Rip Cord	Yes		
4.- Shielding	None		
5.- Drain Wire	None		
6.- Jacket	Thickness	0.50 ± 0.05 mm	
	External Diameter, (O.D.)	5.0 ± 0.1 mm	
	Surface finish	Clean, Satinized	
	Material	CMX, UV Resistant, RoHS	
	Color	Gray	
7.- Messenger wire	Material	Galvanized Steel	
	Diámetro	1.2 ± 0.05 mm	
8.- Markings	Altura del tipo	3.0 ± 0.3 mm	
	Color	Black	
9.- Packaging	Wood Spool, Carton Box, Pallet		
	Product length	305 ± 1.0 m	
10.- UV test	720 hours		
11.- Mechanical properties	Temperature Range	-20 °C to 75 °C	
	Minimum Mechanical Tension resistance	1.68 Kg/mm2	
12.- Electrical properties @ 20 °C	Isolation resistance @500 V	Min 5000 MΩ/Km	
	Zo (1.0 – 100.0 MHz)	100 ±15 Ω	
	Propagation Velocity (% C)	67%	
	Maximum DC Resistance @ (20 °C)	9.38 Ω/100 m	
	Delay [ns/100m] @100 MHz	538 ns	
	% Resistance unbalance between conductors(Max)	2 %	
	Maximum Operating RMS AC Voltage	≤ 48 V	
	Peak Operating Voltage (DC)	≤ 68 VDC	
	(DC) Test Voltage (1 minute)	1.0 KV/ 1 minute	

C Structure



D Electrical Characteristics

Frequency (MHz)	RL >dB	ATT (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)
1	20.0	2.0	65.3	62.3	63.8	60.8
4	23.0	4.1	56.3	53.3	51.8	48.8
8	24.5	5.8	51.8	48.8	45.7	42.7
10	25.0	6.5	50.3	47.3	43.8	40.8
16	25.0	8.2	47.2	44.4	39.7	36.7
20	25.0	9.3	45.8	42.8	37.8	34.8
25	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.9	24.9
100	20.1	22.0	35.3	32.3	23.8	20.8

E How to Order

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