

# NOVACORD

## UUTP-4P-C5E-A24S-PVC-WH



Oxygen Free Copper  
99,9%



Flexible  
construction



Provide 100MHz  
bandwidth in 100m



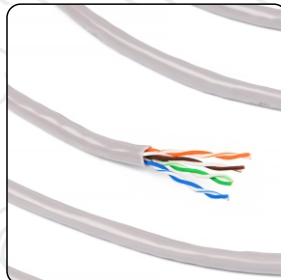
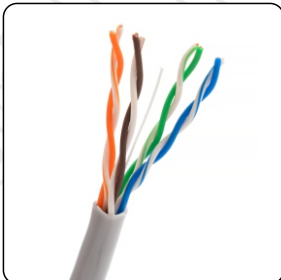
For Indoor  
use



A Category 5e twisted pair cable, also known as a LAN or Ethernet data cable is a copper wire cable twisted into several pairs and coated, which can support data transfer speeds of up to 1 gigabit (1000 megabits). This higher bandwidth enables fast transfer of large files on the network.

- Provide 100MHz bandwidth in 100m, typical speed rate: 1000Mbps
- Widely used for horizontal cabling in working area and LANindoor
- Superior OFC (oxygen free copper) conductor, reliable electric transmission, meets or exceeds Cat.5e standard, provide plentiful redundancy for system link, fast and convenient installation

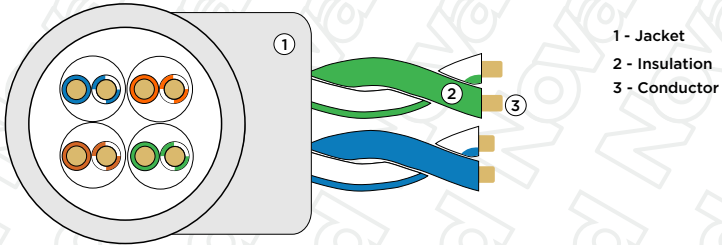
Pictures:



**HIGHEST QUALITY - RELIABILITY - INNOVATION**

Novacord

Cat. 5e U/UTP AWG24/1 installation cable, 4 pairs, PVC, EN 50173-1



### Structure

<b>Conductor</b>	<b>Cross Sec. Area</b>	0.20 mm <sup>2</sup> , Ø 0.50 mm
	<b>No. of Cores</b>	1 cores
	<b>Material</b>	OFC
	<b>Type of conductor</b>	Solid
	<b>Strands</b>	1/0.505 mm
<b>Insulation</b>	<b>Material</b>	PE
	<b>Diameter</b>	0.97 ±0.1 mm
	<b>Colors</b>	Orange, White/Orange, Green, White/Green, Blue, White/Blue, Brown, White/Brown,
<b>Twisting</b>		2 cores twisted to the pair
<b>Cable lay up</b>		4 pairs to the core
<b>Jacket</b>	<b>Material</b>	PVC
	<b>Diameter</b>	5.3 ±0.2 mm
	<b>Color</b>	Light Grey

### Mechanical properties

Bending radius	without load	22 mm / 4xD (outer diameter)
	with load	44 mm / 8xD (outer diameter)
Temperature range		-20°C to +60°C
Tensile force		100 N

## Cat. 5e U/UTP AWG24/1 installation cable, 4 pairs, PVC, EN 50173-1

### Electrical properties

at 20 °C

DC loop resistance	≤ 190 Ω/km
Resistance unbalance	≤ 2%
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Insulation resistance (500V)	≥ 2000 MΩ/km
Mean impedance 100 Mhz	100±5Ω
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Coupling attenuation	≥ 40 dB

### Transmission characteristics acc. to Category 5e

at 20 °C

F	Attenuation	Next	PS-NEXT	ASR	PS-ASR	ACRF	PS-ACRF	Return Loss
(MHZ)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB)
1	1.9	71	68	69.1	66.1	68	65	20
4	3.7	62	59	58.3	55.3	56	53	23
10	6	56	53	50	47.0	48	45	25
16	7.6	53	50	45.4	42.4	44	41	25
20	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.3	25.3	32	29	22
100	19.8	41	40	21.2	18.2	28	25	20
125	22.3	40	38	17.7	14.7	26	23	19
155.5	24.2	38	37	13.8	10.8	24	21	
175	25.7	37	35	11.3	8.3	23	20	
200	27.5	36	34	8.5	5.5	22	19	
250	29.2	35	33	5.8	2.8	20	17	
300	32.0	34	31	2.0	-1.0	16	13	

# Cat. 5e U/UTP AWG24/1 installation cable, 4 pairs, PVC, EN 50173-1

## Application

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Power over Ethernet (PoE) / PoE+

Tertiary (Horizontal)

## Standarts

EIA/TIA-568-C.2

ISO/IEC 11801.

IEC 61156-5

EN 50173-1

EN 50288-6-1

IEEE 802.3at

Flame resistance

IEC 60332-1

Class Eca

## Technical data

Article	Delivery length	Box size	Weight
305B	305 m	400/400/250	12 kg

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**Cable ID: C5E 4P A24S PVC WH**

**Test Summary: PASS**

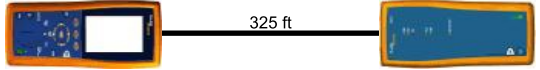
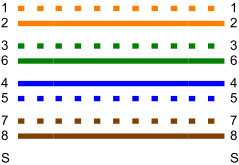
Date / Time: 04/24/2023 07:46:17pm  
**Headroom: 15.8 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 5e Channel**  
 Cable Type: Cat 5 U/UTP

Operator: Gotthilf Gehrige  
 Software Version: 2.7800  
 Limits Version: 1.9500  
 NVP: 69.0%

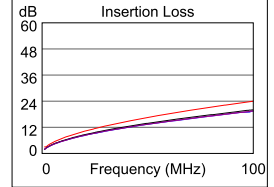
Model: DTX-1800  
 Main S/N: 2314069  
 Remote S/N: 2314070  
 Main Adapter: DTX-CHA002  
 Remote Adapter: DTX-CHA002

**Wire Map (T568B)**

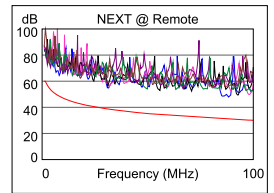
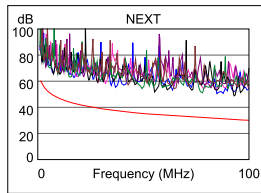
**PASS**



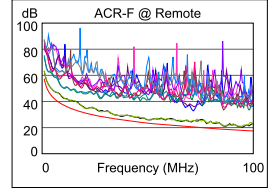
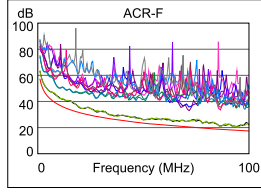
Length (ft), Limit 328	[Pair 78]	325
Prop. Delay (ns), Limit 555		493
Delay Skew (ns), Limit 50		14
Resistance (ohms)	[Pair 36]	18.2
Insertion Loss Margin (dB)	[Pair 45]	4.0
Frequency (MHz)	[Pair 45]	100.0
Limit (dB)	[Pair 45]	24.0



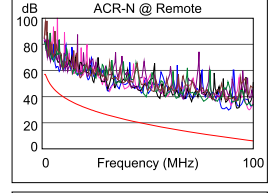
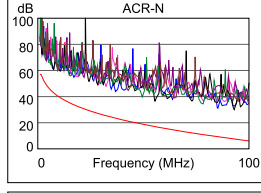
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12-36	12-36	12-78	12-36
<b>NEXT (dB)</b>	16.4	15.8	18.2	16.9
Freq. (MHz)	7.1	8.3	93.0	88.3
Limit (dB)	49.4	48.4	30.6	31.0
Worst Pair	12	12	12	12
<b>PS NEXT (dB)</b>	16.4	15.7	18.6	18.7
Freq. (MHz)	7.3	31.3	85.0	88.3
Limit (dB)	46.3	35.7	28.3	28.0



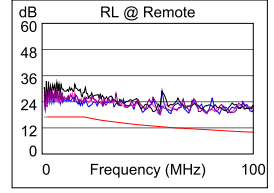
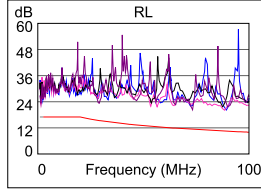
	MAIN		SR	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12-78	12-78	78-12	12-78
<b>ACR-F (dB)</b>	2.3	2.2	2.4	2.3
Freq. (MHz)	86.3	86.3	94.8	94.8
Limit (dB)	18.7	18.7	17.9	17.9
Worst Pair	78	78	12	78
<b>PS ACR-F (dB)</b>	5.0	5.1	5.4	5.3
Freq. (MHz)	86.5	86.0	94.8	94.8
Limit (dB)	15.7	15.7	14.9	14.9



	MAIN		SR	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	12-78	36-45	12-78	12-36
<b>ACR-N (dB)</b>	17.2	16.5	22.6	21.1
Freq. (MHz)	2.0	2.5	93.0	88.5
Limit (dB)	55.3	53.4	7.5	8.5
Worst Pair	12	45	12	12
<b>PS ACR-N (dB)</b>	17.3	17.9	23.9	23.0
Freq. (MHz)	2.1	2.5	93.0	88.3
Limit (dB)	51.8	50.4	4.5	5.6



	MAIN		SR	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	78	12	36	36
<b>RL (dB)</b>	7.6	5.2	9.5	5.7
Freq. (MHz)	28.9	22.1	88.3	56.0
Limit (dB)	15.4	16.6	10.6	12.5



Compliant Network Standards:  
 10BASE-T 100BASE-TX 100BASE-T4  
 1000BASE-T ATM-25 100BASE-T4  
 ATM-155 100VG-AnyLan ATM-51  
 TR-16 Active TR-16 Passive TR-4