

Finolex Cables Limited

AN IS/ISO 9001:2008 CERTIFIED COMPANY

LAN CABLING SOLUTIONS



Listed & Verified

CATEGORY 5 ENHANCED UNSHIELDED TWISTED PAIR (UTP) LAN CABLE

Description : 4 Pair Unshielded Twisted Pair (UTP) Category 5 Enhanced LAN Cable

Part Number : 32105048

Standard Length : 305 Meters (1000 Feet)

Packaging: Tangle free cable pack in laminated corrugated box and UL listing & verification label

Application: This Category 5E, four pair cable is a high-speed, high performance, 100 ohm impedance cable capable of carrying high bit-rate signaling for extended distances in horizontal cabling. Signal amplifiers are not required for a length of 328 feet (100 M). Applications can include Voice, ISDN, ATM 155 Mbps, ATM 622 Mbps 100 Mbps TPDDI, Fast and Giga Ethernet, 100 Mbps TP-PMD, 1000 BASE-T

Physical Specification:

Conductor	: 24 AWG Annealed bare solid copper
Insulation	: High Density Polyethylene
Core Colour	: Pair 1 : White / Blue - Blue Pair 2 : White / Orange - Orange Pair 3 : White / Green - Green Pair 4 : White / Brown - Brown
Sheath	: Fire Retardant PVC Compound (FRPVC)
Approx. Cable OD	: 5.5 mm
Sheath Colour	: Grey
Operating Environment	: Indoor
Temperature Rating	: 60 deg. C
Flame Classification	: CMX As per UL 1581 (VW-1)

Electrical Performance : (At 100MHz)

Standards	: ANSI/TIA-568C.2, UL Listed & verified for CAT 5 E
Impedance	: 100 +/- 15 ohm
(NVP) Velocity of Propagation	: 65% min @ 100 Mhz
Delay Skew	: 45 ns / 100 mtrs. @ 20 deg. C max.
Propagation Delay	: 538 ns / 100 mtrs. @ 100 MHz @ 20 deg. C max.
DC Resistance	: 9.38 ohm / 100 mtrs. @ 20 deg. C max.
Mutual Capacitance	: 5.60 nF / 100 mtrs. max.

Comparative Performance : Advantage Finolex

Frequency (Mhz)	Max Attenuation dB/100m @ 20°C		Min. NEXT(dB)		Min. PS NEXT (dB)		Min. EL FEXT ACR-F dB/100m @ 20°C		Min. PS EL FEXT PSACR-F dB/100m @ 20°C		Min. Return Loss(dB)	
	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical
1.00	2.00	1.94	65.30	79.60	62.30	76.00	63.80	67.30	60.80	64.30	20.00	35.40
4.00	4.10	3.90	56.30	70.10	53.30	66.00	51.7	63.80	48.7	60.30	23.00	34.60
8.00	5.80	5.50	51.80	65.80	48.80	61.20	45.70	59.60	42.70	54.70	24.50	38.20
10.00	6.50	6.26	50.30	62.50	47.30	61.70	43.80	57.60	40.80	55.60	25.00	36.20
16.00	8.20	8.01	47.30	61.70	44.4	56.70	39.70	55.80	36.70	52.80	25.00	35.90
20.00	9.30	8.99	45.80	61.40	42.80	58.50	37.7	52.20	34.7	49.10	25.00	37.30
25.00	10.40	10.10	44.30	53.90	41.30	54.30	35.80	47.60	32.80	44.60	24.30	31.80
31.25	11.70	11.38	42.90	55.90	39.90	52.70	33.90	42.60	30.90	47.60	23.60	36.10
62.50	17.00	16.34	36.40	49.80	35.40	47.50	27.8	48.50	24.6	43.80	21.50	33.90
100.00	22.00	20.69	35.30	47.70	32.30	46.50	23.80	43.00	20.80	41.70	20.10	31.10



UL
Listed & Verified

CATEGORY 6 UNSHIELDED TWISTED PAIR (UTP) LAN CABLE

Description : 4 Pair UTP Category 6 LAN Cable with Star Type Pair Separator

Part Number : 32255048/32245048

Standard Length : 305 Meters (1000 Feet)

Packaging : Tangle free cable pack in laminated box with UL Listing & Verification Label

Application : This Category 6, four pair cable is a high-speed, high performance, 100 ohm impedance cable capable of carrying high bit-rate signaling for extended distances in horizontal cabling. Signal amplifiers are not required for a length of 328 feet (100 M). Applications can include Voice, ISDN, ATM 155 Mbps, ATM 622 Mbps 100 Mbps TPDDI, Fast and Giga Ethernet, and IEEE 802.3/5/12, 100 BASE VG (100 BASE NE), 100 BASE-T, 100 Mbps TP-PMD, 1000 BASE-T, 10Gb and any other future applications designed for Category 6 Cables.

Physical Specification:

Conductor : 23 AWG Annealed bare solid copper
 Insulation : High Density Polyethylene
 Core Colour : Pair 1 : White / Blue - Blue
 Pair 2 : White / Orange - Orange
 Pair 3 : White / Green - Green
 Pair 4 : White / Brown - Brown
 Sheath : Fire Retardant PVC Compound (FRPVC)
 Star Separator : Low Density Polyethylene
 Approx. Cable OD : 6.5 mm Max.
 Sheath Colour : Yellow / Grey
 Operating Environment : Indoor
 Temperature Rating : 75 deg. C
 Flame Classification : CM Vertical Tray Flame Test as per UL 1685.

Electrical Performance :

(At 250MHz)
 Standards : ANSI/TIA-568C.2, ETL Verified, UL Listed & Verified For CAT 6
 Impedance : 100 +/- 15 ohm
 Velocity of Propagation : 62.10% min @ 250 MHz
 Propagation Delay : 536 ns / 100 mtrs. max @ 20 deg. C @ 250 MHz
 Delay Skew : 45 ns / 100 mtrs. max. @ 20 deg. C for 1 MHz~250 MHz
 DC Resistance : 9.38 ohm / 100 mtrs. max. @ 20 deg. C
 Mutual Capacitance : 5.60 nF / 100 mtrs. max. at 1000 Hz



Comparative Performance : Advantage Finolex

Frequency (Mhz)	Max Attenuation dB/100m @ 20°C		Min. NEXT(dB)		Min. PS NEXT (dB)		Min. ACR NEXT (dB)		Min. ACR PS NEXT (dB)		Min. EL FEXT ACR-F dB/100 M @ 20°C		Min. PS EL FEXT PSACR-F dB/100 M @ 20°C		Min. Return Loss (dB)	
	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical
1.00	2.00	1.98	74.30	76.81	72.3	75.54	72.30	74.79	70.30	73.56	67.80	70.75	64.80	67.75	20.00	42.27
4.00	3.80	3.70	65.30	67.78	63.3	66.51	61.50	64.00	59.50	62.81	55.80	58.71	52.80	55.71	23.00	38.05
8.00	5.30	5.20	60.80	63.27	58.8	62.00	55.40	57.95	53.40	56.80	49.70	52.69	46.70	49.69	24.50	35.95
10.00	6.00	5.82	59.30	61.81	57.3	60.54	53.40	55.86	51.40	54.73	47.80	50.75	44.80	47.75	25.00	35.27
16.00	7.60	7.38	56.20	58.75	54.2	57.48	48.70	51.20	46.70	50.10	43.70	46.67	40.70	43.67	25.00	33.84
20.00	8.50	8.28	54.80	57.30	52.8	56.03	46.30	48.83	44.30	47.75	41.80	44.73	38.80	41.73	25.00	33.16
25.00	9.50	9.29	53.30	55.85	51.3	54.58	43.80	46.34	41.80	45.28	39.80	42.79	36.80	39.79	24.30	32.28
31.25	10.70	10.43	51.90	54.39	49.9	53.12	41.20	43.72	39.20	42.69	37.90	40.86	34.90	37.86	23.60	31.80
62.50	15.40	15.04	47.40	49.88	45.4	48.61	32.00	34.49	30.00	33.56	31.90	34.83	28.90	31.83	21.50	29.70
100.00	19.80	19.37	44.30	46.81	42.3	45.54	24.50	27.01	22.50	26.17	27.80	30.75	24.80	27.75	20.10	28.27
200.00	29.00	28.38	39.80	42.30	37.8	41.03	10.80	13.32	8.80	12.65	21.80	24.73	18.80	21.73	18.00	26.16
250.00	32.90	32.17	38.30	40.85	36.3	39.58	9.70	12.20	7.70	11.55	19.80	24.31	16.80	21.31	17.30	20.01

CATEGORY 5 ENHANCED UNSHIELDED TWISTED PAIR LAN CABLE WITH COPPER CLAD ALUMINIUM CONDUCTOR (CCA)

The cable is with copper clad aluminium (CCA) conductor, which due to the principle of skin effect carry the high frequency signal over the surface of conductor. The surface conductor is of copper and offers less resistance resulting into no loss of signal quality and maintains the same performance.

Description : 4 Pair Unshielded Twisted Pair (UTP) Category 5 Enhanced LAN Cable with Copper Clad Aluminium (CCA) conductor.

Part Number : 32925048

Standard Length : 305 Meters (1000 Feet)

Packaging : Tangle free cable in corrugated box

Application : This Category LAN 5 E cable with Copper Clad Aluminium conductor, with PE insulation, colour coded and form four twisted pair, Jacketed with FR PVC compound. The cable is a high-speed, high performance, broadband, 100 ohm impedance capable of carrying high bit-rate signaling for extended distances in horizontal cabling. Applications can include Voice, Broadband Service provider i.e. ISP (Internet Service Provider).

Physical Specification:

Conductor : 24 AWG Copper Clad Aluminium
 Insulation : High Density Polyethylene
 Core Colour : Pair 1 : White / Blue - Blue
 Pair 2 : White / Orange - Orange
 Pair 3 : White / Green - Green
 Pair 4 : White / Brown - Brown
 Sheath : Fire Retardant PVC Compound (FRPVC)
 Approx. Cable OD : 5.5 mm
 Sheath Colour : Cream
 Operating Environment : Indoor
 Flame Rating : 60 deg. C as per UL 1581/CMX.

Electrical Performance :

(At 100MHz)
 Standards : Generally conforming to ANSI/TIA - 568C.2
 Impedance : 100 +/- 15 ohm
 (NVP) Velocity of Propagation: 65% Min @ 100 MHz. @ 20 deg. C
 Delay Skew : 45 ns / 100 mtrs. max. @ 1~ 100MHz
 Propagation Delay : 538 ns / 100 mtrs. @ 100 MHz. @ 20 deg. C max.
 DC Resistance : 14.0 Ohms / 100 mtrs. max. @ 20 deg. C
 Mutual Capacitance : 5.60 nF / 100 mtrs.



TYPICAL & SPECIFIED VALUES OF CAT-5E (CCA) LAN CABLE

Frequency (Mhz)	Attenuation (MAX) dB/100 M @ 20°C		NEXT (MIN) (dB)		PS NEXT (MIN) (dB)		EL FEXT ACR-F (MIN) dB/100m @ 20°C		PS EL FEXT PSACR-F (MIN) dB/100m @ 20°C		Return Loss (MIN) (dB)		ACR NEXT (MIN) (dB)	
	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical
1.00	2.5	2.38	65.30	73.52	62.30	69.54	63.80	65.90	60.80	62.58	20.00	24.35	63.50	69.78
10.00	7.8	7.36	50.30	59.12	47.30	56.80	43.80	48.44	40.80	45.10	25.00	29.60	44.50	52.80
16.00	10.0	9.45	47.30	54.39	44.20	53.20	39.70	44.72	36.70	41.58	25.00	27.65	39.10	47.14
20.00	11.2	10.58	45.80	55.78	42.80	53.60	37.7	49.22	34.7	47.24	25.00	26.33	38.50	47.33
31.25	14.1	13.07	42.90	53.98	39.90	51.90	33.90	49.36	30.90	46.49	23.60	24.56	33.20	53.59
62.50	17.4	18.97	36.40	49.39	35.40	47.42	27.90	46.22	24.90	44.09	21.50	23.60	23.10	35.00
100.00	22.4	24.78	35.30	47.02	32.30	44.60	23.80	41.55	20.80	39.34	20.10	22.50	15.50	28.57

CATEGORY 5E NETWORKING CABLE UTP 2 PAIR

Part Number : 32105028

Standard Length : 250 Mtrs.

Packaging: Packed in master cartons consisting of three 250 Mtrs. coils in individual mono cartons

Application: These are structured cables for outdoor applications suitable for ethernet Applications & compatible with all known connection systems.

Physical Specification:

Conductor : 25 AWG Solid Annealed Bare Copper Conductor
 Insulation : High Density Polyethylene
 Core Colour : Pair 1 : White / Blue - Blue
 Pair 2 : White / Orange - Orange
 Wrapper : Polyester Tape Over Pairs
 Sheath : Polyethylene (PE)
 Approx. Cable OD : 4.00 mm
 Sheath Colour : Black
 Operating Environment : Outdoor



Electrical Performance : (At 100MHz)

Standards : Generally Conforming to ANSI / TIA-568C.2
 Impedance : 100 +/- 15 ohm
 Velocity of Propagation : 65% min @ 100 MHz.
 Propagation Delay : 538 ns / 100 mtrs. max. @ 20 deg. C @ 100 MHz.
 Delay Skew : 45 ns / 100 mtrs. max. @ 20 deg. C for 1 - 100 MHz
 Mutual Capacitance : 5.60 nF / 100 mtrs. max.

Comparative Performance : Advantage Finolex

Frequency (Mhz)	Max Attenuation dB/100m @ 20°C		Min. NEXT(dB)		Min. PS NEXT (dB)		Min. EL FEXT ACR-F dB/100m @ 20°C		Min. PS EL FEXT PSACR-F dB/100m @ 20°C		Min. Return Loss(dB)	
	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical	Spec.	Typical
1.00	2.00	1.94	65.30	79.60	62.30	76.00	63.80	67.30	60.80	64.30	20.00	35.40
4.00	4.10	3.90	56.30	70.10	53.30	66.00	51.7	63.80	48.7	60.30	23.00	34.60
8.00	5.80	5.50	51.80	65.80	48.80	61.20	45.70	59.60	42.70	54.70	24.50	38.20
10.00	6.50	6.26	50.30	62.50	47.30	61.70	43.80	57.60	40.80	55.60	25.00	36.20
16.00	8.20	8.01	47.30	61.70	44.4	56.70	39.70	55.80	36.70	52.80	25.00	35.90
20.00	9.30	8.99	45.80	61.40	42.80	58.50	37.7	52.20	34.7	49.10	25.00	37.30
25.00	10.40	10.10	44.30	53.90	41.30	54.30	35.80	47.60	32.80	44.60	24.30	31.80
31.25	11.70	11.38	42.90	55.90	39.90	52.70	33.90	42.60	30.90	47.60	23.60	36.10
62.50	17.00	16.34	36.40	49.80	35.40	47.50	27.8	48.50	24.6	43.80	21.50	33.90
100.00	22.00	20.69	35.30	47.70	32.30	46.50	23.80	43.00	20.80	41.70	20.10	31.10

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Today, the name Finolex has become synonymous with quality and enjoys overwhelming confidence of the customers.

While enhancing our capacities in Electrical, Data and Telecommunication cables, the company has augmented its product portfolio by foraying into the manufacture of High Voltage Power Cables, Electrical Switches & Accessories and Lighting products. The tremendous growth of IT and Communications industry in India is a globally recognized fact. We have made rapid advancements in the field of technology and the need for specific and specialized Fibre optics communication solutions in the emerging data communication sectors like Telecommunications, IT / ITES, Medical Tourism, etc. is serviced with our high quality Fibre Optic and Networking Cables.

Today, our product basket includes, Electrical Wires, Industrial Cables, Winding Wires and 3 Core Flat Cables for Submersible Pumps in the agriculture sector, Auto Cables for the automotive industry, Communication Cables like Indoor Telephone Cables, Jelly Filled Telephone Cables, Optic Fibre Cables and Optic Fibre, LAN Cables for networking, Low Voltage, Medium Voltage and High Voltage Power Cables for the Power Industry, Coaxial Cables for the DTH and entertainment industry, Electrical Switches and Accessories, Lighting products including Compact Fluorescent Lamps, T5 Tubes and Fittings, LED lamps among others.

The company has created a pan India strong and dependable distribution network of Channel Partners, Dealers besides representatives appointed in the overseas market. Not only has the distribution network been built with an objective to serve the customer at his doorstep, the Company undertakes a periodical review for the upgrade and expansion of the systems. The domestic distribution network is supported by Branch Offices and Depots opened by the Company at a number of locations across the country. Today we have over 2500 Channel Partners and more than 20,000 Dealers through whom we service our customers. We have evaluated and enabled an infrastructure to provide the best of facilities to our employees and customers. Our IT systems has been designed with the objective to provide enterprise wide SAP and zero defect on critical servers.



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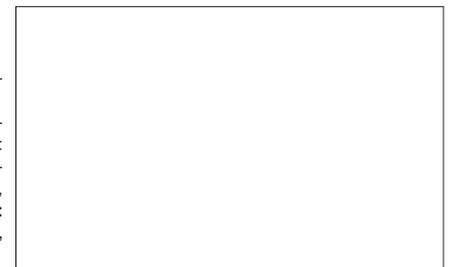
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Sample card available on request



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In order to derive maximum benefit and utilisation of our products, we advise that these products are stored, installed and commissioned as per the norms prevailing in the place of installation. When decommissioned, these should be disposed using appropriate methods/process specified in respective state / location of use so as not to affect the environment adversely.