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Finolex

FLAME RETARDANT

Flame Retardant (FR) PVC Insulated Industrial Cables

- High Insulation Resistance
- Anti-Termite Rodent Repellent
- RoHS Compliant
- REACH Compliant

MORE THAN 100% CONDUCTIVITY

QUALITY COPPER & PVC DEVELOPED IN-HOUSE

THE MOST QUALIFIED IS/ISO 9001 IS:694 ELECTRICAL WIRES

XCEEDS XPECTATIONS

Finolex Cables Limited

Started in 1958, Finolex Cables Limited is India's largest and leading electrical and telecommunication cables manufacturer. Finolex Cables has always believed in enhancing capabilities and augmenting the product basket. In last few years, besides the cables business the company has forayed into new segments and added new products under the Finolex brand. The company offers Total Electrical Solutions with products like Electrical Wires, 3 Core Flat Cables, Communication Cables, Telecommunication Cables, Flexible Cables, Auto Cables, Conduits, Room Heaters, LED Lights, Switches, Switchgears, Fans, Irons and Water Heaters. Finolex Cables Limited has four manufacturing facilities viz. at Pimpri (Pune), Urse (near Pune), Verna (Goa) and Roorkee (Uttarakhand).

The company is known for their unmatched quality and safety standard which has made it amongst the most reliable brands of the country. Over the six-decade long journey, Finolex Cables has cemented its reputation as an innovative leader and quality manufacturer by continuously upgrading technology, modernizing manufacturing facilities and maintaining the highest standards in quality and service.

Flame Retardant (FR) PVC Insulated Industrial Cables

One of the core products of Finolex Cables, Flame retardant (FR) PVC insulated industrial cables, offer added safety. This is also RoHS and REACH Compliant making it enviornment friendly. Additionally, it's Anti Termite and Rodent Repellent.

Each wire is manufactured using 99.96% pure, electrolytic grade, bright annealed bare copper with more than 100% conductivity for conductor. This copper is manufactured at the company's state-of-the-art plant in Goa. Highest purity and conductivity of copper ensures greater saving of electrical energy, thus helping reduce electricity bills. The conductor is made of multiple strands of finely drawn copper wires thereby offering greater flexibility which makes these wires ideal for conduit wiring.

The wires are insulated with FR (Flame Retardent) PVC compound, specially formulated and manufactured in-house. This PVC compound has FR properties of high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures. This special compound also offers high insulation resistance and dielectric strength. Insulation is applied over the conductor by the process of dual extrusion using state-of-the-art extrusion lines. The outer skin determines the colour identification while the inner layer is pure insulation which provides extra protection. All wires are subjected to high voltage spark testing to make sure that there are no weak spots in the insulation.

These ISI marked wires meet the requirements of IS 694 : 2010 with latest amendments with improved fire performance for category FR. This means extra protection against electrical shocks, short circuits and fires.

Buy only from authorised Finolex outlets to be assured of total quality. If doubt arises about the authenticity of the purchase, please write to the company at the address given below. Send a copy of the cash memo, coil number and a metre-length sample of the cable to enable genuineness tests to be carried out in the laboratory.

These wires are manufactured in our state-of-the-art manufacturing plants at Urse (Near Pune), Verna (Goa) & Roorkee (Uttarakhand).

The brand Finolex, company logo, size of wire, voltage grade FR Type, ISI mark, licence no. are printed at regular intervals on the wire to help in easy identification as shown below.

FR PROPERTIES

Test	Test Method Specified	Specification Values
Critical Oxygen Index	IS:10810 Part 58	Oxygen Index Minimum 29%
Temperature Index	IS:10810 Part 64	Temperature Index 250° C Minimum at 21% Oxygen

Also meet requirements of Flammability Test as per IS 694:2010

IS:694

CM/L-7306463
CM/L-7525273
CM/L-8944096

FLAME RETARDANT (FR) PVC INSULATED INDUSTRIAL CABLES SINGLE CORE, UNSHEATHED CABLES IN VOLTAGE GRADE 1100V

Nominal area of copper conductor	Thickness of insulation (Nominal)	Approximate overall diameter of wire	Current carrying capacity # 2 wires, single phase		Resistance (Max.) per km. @20° C
			In conduit / Trunking	Unenclosed - clipped directly to a surface or on cable tray	
Sq. mm	mm	mm	Amps	Amps	Ohm
0.75	0.6	2.3	6	7	26.0
1.0	0.7	2.6	11	12	19.5
1.5	0.7	2.9	13	16	13.3
2.5	0.8	3.6	18	22	7.98
4.0	0.8	4.0	24	29	4.95
6.0	0.8	4.5	31	37	3.30

Standard Colours: Black, Red, Blue, Yellow and Green (for earthing). Supplied in 90 M length
As per IS 3961 (Part V) - 1968 BIS license Nos. CM/L 7306463 CM/L 7525273 & CM/L 8944096

Finolex Cables Limited
AN IS/ISO 9001 CERTIFIED COMPANY

26-27, Mumbai-Pune Road, Pimpri, Pune - 411018, India.
Tel: 020-27506200 I Visit us at: www.finolex.com
Email: sales@finolex.com
CIN: L31300MH1967PLC016531

FOR TECHNICAL LITERATURE PLEASE CONTACT OUR BRANCH OFFICES: Ahmedabad : Tel: 079-26584637 / 26575639 | Bengaluru : Tel: 9845278680 | Bhubaneswar : Tel: 0674-2971188, 2971922 | Chennai : Tel: 044-28231514/28284141 | Chandigarh : Tel: 9316064670 | Cochin : Tel: 9880088155 | Coimbatore : Tel: 0422-2330997 | Dharwad : Tel: 9880088155 | Goa : Tel: 0832-2782003 / 2782065 | Gurgaon : Tel: 9896763770 | Guwahati : Tel: 9435324398 | Indore : Tel: 7314911723 | Jaipur : Tel: 9929111411 | Kolkata : Tel: 0522-4035031 | Lucknow : Tel: 9560299393 | Mumbai : Tel: 022 - 22820062 | New Delhi : Tel: 9870170171 | Patna : Tel: 9934107999 | Pune : Tel: 020 - 27506200 | Raipur : Tel: 7008336581 | Ranchi : Tel: 8101383841 | Secunderabad : Tel: 040 - 27811161 | Uttarakhand : Tel: 9760045003 | Vadodara : Tel: 9879555568 | Vijayawada : Tel: 9848043967

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Finolex

TRUSTED LAN SOLUTIONS FOR EVERY CONNECTION

XCEEDS XPECTATIONS

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	:	-15°C to 70°C
Flame Classification	:	CMXAs 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 ηs /100 mtrs. @ 20 deg. C max
Propagation Delay	:	538 ηs / 100 mtrs. @100 MHz @ 20 deg. C max.
DC Resistance	:	9.38 ohm / 100 mtrs. @ 20 deg. C max.
Mutual Capacitance	:	5.60 ηf / 100 mtrs. max.

Listed & Verified

RoHS COMPLIANT

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

CATEGORY 6 UNSHIELDED TWISTED PAIR (UTP) LAN CABLE

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

Part Number: 32255042/32245042/32265042/32275042

Standard Length: 305 Meters (1000 Feet)

Packaging: Packed in master carton consisting of two Tangle Free 305 M coils in individual mono carton.

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	:	6.00 mm Max.
Sheath Colour	:	Yellow/ Grey/ Green/ Blue
Operating Environment	:	Indoor
Temperature Rating : -15°C to 70°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 ηs / 100 mtrs.max @ 20 deg. C @ 250 MHz
Delay Skew	:	45 ηs /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 ηf / 100 mtrs. max. at 1000 Hz

Listed & Verified

RoHS COMPLIANT

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/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
1.00	2.00	1.98	74.30	76.81	72.3	75.54	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	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	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	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	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	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	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	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	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	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	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	19.80	24.31	16.80	21.31	17.30	20.01

CATEGORY 6 UNSHIELDED TWISTED PAIR (UTP) - LITE LAN CABLE

Description: 4P UTP CAT6 LITE LAN with Star Type Pair Seperator

Part Number: 32245142/32255142/32265142/32275142

Standard Length: 305 Meters (1000 Feet)

Packaging: Packed in master carton consisting of two Tangle Free 305 M coils in individual mono carton.

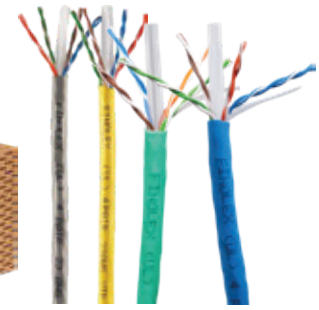
Application: This Category 6, four pair cable is a high-speed, high performance, 100 ohm impedance cable capable of carrying high bit-rate signaling for extended distances in horizontal cabling. Signal amplifiers are not required for a length of 328 feet (100 M). Applications can include Voice, ISDN, 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	:	5.7 mm
Sheath Colour	:	Yellow/ Grey/ Green/ Blue
Operating Environment	:	Indoor
Temperature Rating	:	-15°C to 70°C

Electrical Performance : (At 250MHz)

Standards	:	ANSI/TIA 568C.2
Impedance	:	100 +/- 15 ohm
Velocity of Propagation	:	62.10% min @ 250 MHz
Propagation Delay	:	536 ηs / 100 mtrs.max @ 20 deg. C @ 250 MHz
Delay Skew	:	45 ηs /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 ηf / 100 mtrs. max. at 1000 Hz



RoHS COMPLIANT CE

Comparative Performance : Advantage Finolex

Frequency (MHz)	Max Attenuation dB/100m @20°C	Min NEXT dB/100m @20°C	Min PS NEXT dB/100m @20°C	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	
1	2.1	65	62	67.80	70.45	64.80	67.75	19
4	4	63	60.5	55.80	58.71	52.80	55.71	19
8	5.7	58.2	55.6	49.70	52.69	46.70	49.69	19
10	6.3	56.6	54	47.80	50.75	44.80	47.67	19
16	8	53.2	50.6	43.70	46.67	40.70	41.73	18
20	9	51.6	49	41.80	44.73	38.80	39.79	17.5
25	10.1	50	47.3	39.80	42.79	36.80	37.86	17
31.25	11.4	48.4	45.7	37.90	40.86	34.90	31.83	16.5
62.5	16.5	43.4	40.6	31.90	34.83	28.90	27.75	14
100	21.3	39.9	37.1	27.80	30.75	24.80	26.17	12
200	31.5	34.8	31.9	21.80	24.73	18.80	21.73	9
250	35.9	33.1	30.2	19.80	24.31	16.80	21.31	8

CATEGORY 6 UNSHIELDED TWISTED PAIR LAN CABLE WITH COPPER CLAD ALUMINIUM CONDUCTOR (CCA)

Description: 4 Pair Unshielded Twisted Pair (UTP) Category 6 LAN Cable with Copper Clad Aluminium (CCA) conductor.

Part Number: 32955048

Standard Length: 305 Meters (1000 Feet)

Packaging: Packed in master carton consisting of two Tangle Free 305 M coils in individual mono carton.

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 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)
Star Separator	:	Low Density Polyethylene
Approx. Cable OD	:	6.00 mm
Sheath Colour	:	Orange
Operating Environment	:	Indoor
Temperature Rating	:	-15°C to 70°C

Electrical Performance : (At 250MHz)

Standards	:	ANSI/TIA-568C.2
Impedance	:	100 +/- 15 ohm
Velocity of Propagation	:	62.10% min @ 250 MHz
Propagation Delay	:	536 ηs / 100 mtrs.max @ 20 deg. C @ 250 MHz
Delay Skew	:	45 ηs /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 ηf / 100 mtrs. max. at 1000 Hz

RoHS COMPLIANT CE

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/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
1.00	2.00	1.98	74.30	76.81	72.3	75.54	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	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	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	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	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	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	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	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	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	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	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	19.80	24.31	16.80	21.31	17.30	20.01

CAT6A U/UTP

Description: 4P 23AWG UTP - CAT6A LAN GRY

Part Number: 32206048

Standard Length: 305 Meters (1000 Feet)

Packaging: 305 M Reel in corrugated box

Application: Cable applied in structured cabling system of Class E for high speed data and voice transmission, secondary (vertical) and tertiary (horizontal) level. Cable used in following types of network: ISDN , IEEE 802.3 10Base-T Ethernet 10Mb/s, IEEE 802.3u 100Base-T Fast Ethernet 100Mb/s, IEEE 802.3ab 1000Base-T Gigabit Ethernet 1000Mb/s, Data center I/O consolidation, Parallel processing and High speed computing

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	:	6.0 mm
Sheath Colour	:	Grey
Operating Environment	:	Indoor
Temperature Range	:	-15°C to 70°C

Electrical Performance : (At 500MHz)

Standards	:	ANSI/TIA-568C.2
Impedance	:	100 +/- 15 ohm
Velocity of Propagation	:	62.10% min @ 500 MHz
Propagation Delay	:	536 ηs / 100 mtrs.max @ 20 deg. C @ 500 MHz
Delay Skew	:	45 ηs /100 mtrs. max. @ 20 deg. C for 1 MHz~500 MHz
DC Resistance	:	9.38 ohm / 100 mtrs. max. @ 20 deg. C
Mutual Capacitance	:	5.60 ηf / 100 mtrs. max. at 1000 Hz

RoHS COMPLIANT CE

Frequency (MHz)	Max Attenuation dB/100m @20°C	Min Return Loss (dB)	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
1.00	2.0	20.0	74.3	72.3	67.8	64.8
4.00	3.8	23.0	65.3	63.3	55.8	52.8
8.00	5.3	24.5	60.8	58.8	49.7	46.7
10.00	6.0	25.0	59.3	57.3	47.8	44.8
16.00	7.6	25.0	56.2	54.2	43.7	40.7
20.00	8.5	25.0	54.8	52.8	41.8	38.8
25.00	9.5	24.3	53.3	51.3	39.8	36.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9
62.50	15.4	21.5	47.4	45.4	31.9	28.9
100.0	19.8	20.1	44.3	42.3	27.8	24.8
200.0	29.0	18.0	39.8	37.8	21.8	18.8
250.0	32.8	17.3	38.3	36.3	19.8	16.8
300.0	34.27	16.77	37.14	35.14	18.26	15.26
400.0	40.05	15.89	35.27	33.27	15.76	12.76
500.0	45.26	15.21	33.82	31.82	13.82	10.82

CATEGORY 6 UNSHIELDED TWISTED PAIR (UTP) LITE LAN CABLE

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

Part Number: 32245044/32255144

Standard Length: 100 Meters

Packaging: Packed in master carton consisting of two Tangle Free 100 M coils in indivisual mono carton

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
aSheath	:	Fire Retardant PVC Compound (FRPVC)
Star Separator	:	Low Density Polyethylene
Approx. Cable OD	:	5.7 mm
Sheath Colour	:	Grey/ Yellow
Operating Environment	:	Indoor
Temperature Rating	:	-15°C to 70°C

Electrical Performance : (At 250MHz)

Standards	:	ANSI/TIA-568C.2
Impedance	:	100 +/- 15 ohm
Velocity of Propagation	:	62.10% min @ 250 MHz
Propagation Delay	:	536 ηs / 100 mtrs.max @ 20 deg. C @ 250 MHz
Delay Skew	:	45 ηs /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 ηf / 100 mtrs. max. at 1000 Hz

RoHS COMPLIANT CE

Comparative Performance : Advantage Finolex

Frequency (MHz)	Max Attenuation dB/100m @20°C	Min NEXT dB/100m @20°C	Min PS NEXT dB/100m @20°C	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	
1	2.1	65	62	67.80	70.45	64.80	67.75	19
4	4	63	60.5	55.80	58.71	52.80	55.71	19
8	5.7	58.2	55.6	49.70	52.69	46.70	49.69	19
10	6.3	56.6	54	47.80	50.75	44.80	47.67	19
16	8	53.2	50.6	43.70	46.67	40.70	41.73	18
20	9	51.6	49	41.80	44.73	38.80	39.79	17.5
25	10.1	50	47.3	39.80	42.79	36.80	37.86	17
31.25	11.4	48.4	45.7	37.90	40.86	34.90	31.83	16.5
62.5	16.5	43.4	40.6	31.90	34.83	28.90	27.75	14
100	21.3	39.9	37.1	27.80	30.75	24.80	26.17	12
200	31.5	34.8	31.9	21.80	24.73	18.80	21.73	9
250	35.9	33.1	30.2	19.80	24.31	16.80	21.31	8

CAT6 ECCS TAPE ARMOURED CABLE

Description: 4P 23 AWG CAT6 PE ECCS ARMD CBL 305M

Part Number: 32440608

Standard Length: 305 Meters (1000 Feet)

Packaging: 305 M on Wooden Drum

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
Rip Cord	:	Nylon Rip Cord under Inner Sheath
Inner Sheath	:	FR- PVC
Outer Sheath	:	Polyethylene (PE)
Outer Sheath colour	:	Black
Star Separator	:	Low Density Polyethylene
Approx. Cable OD	:	9.2 mm
Sheath Colour	:	Black
Operating Environment	:	Outdoor
Temperature Rating	:	-15°C to 70°C

Electrical Performance : (At 250MHz)

Standards	:	ANSI/TIA-568C.2
Impedance	:	100 +/- 15 ohm
Velocity of Propagation	:	62.10% min @ 250 MHz
Propagation Delay	:	536 ηs / 100 mtrs.max @ 20 deg. C @ 250 MHz
Delay Skew	:	45 ηs /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 ηf / 100 mtrs. max. at 1000 Hz

RoHS COMPLIANT CE

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/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
1.00	2.00	1.98	74.30	76.81	72.3	75.54	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	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	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	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	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	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	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	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	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	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	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	19.80	24.31	16.80	21.31	17.30	20.01

CAT6 UNSHIELDED TWISTED PAIR (UTP) DOUBLE SHEATH CABLE

Description: 4 PAIR UTP CAT6 LAN DOSTH 305

Part Number: 32255248

Standard Length: 305 M on Wooden Drum

Packaging: Packed in master carton consisting of two Tangle Free 305 M coils in individual mono carton.

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
Rip Cord	:	Nylon Rip Cord under Inner Sheath
Inner Sheath	:	FR- PVC
Outer Sheath	:	Polyethylene (PE)
Outer Sheath colour	:	Black
Star Separator	:	Low Density Polyethylene
Approx. Cable OD	:	7.00 mm
Sheath Colour	:	Yellow / Black
Operating Environment	:	Outdoor
Temperature Rating	:	-15°C to 70°C

Electrical Performance : (At 250MHz)

Standards	:	ANSI/TIA-568C.2
Impedance	:	100 +/- 15 ohm
Velocity of Propagation	:	62.10% min @ 250 MHz
Propagation Delay	:	536 ηs / 100 mtrs.max @ 20 deg. C @ 250 MHz
Delay Skew	:	45 ηs /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 ηf / 100 mtrs. max. at 1000 Hz

RoHS COMPLIANT CE

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/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
1.00	2.00	1.98	74.30	76.81	72.3	75.54	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	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	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	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	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	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	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	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	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	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	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	19.80	24.31	16.80	21.31	17.30	20.01

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 ηs / 100 mtrs. max. @ 20 deg. C @ 100 MHz.
Delay Skew	:	45 ηs /100 mtrs. max. @ 20 deg. C for 1-100 MHz
Mutual Capacitance	:	5.60 ηf / 100 mtrs. max. @ 1000 Hz

RoHS COMPLIANT CE

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

Finolex Cables Limited

AN IS/ISO 9001 CERTIFIED COMPANY

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.

Finolex Cables Limited

AN IS/ISO 9001 CERTIFIED COMPANY

26-27, Mumbai-Pune Road, Pimpri, Pune - 411018, India.
Tel: 020-27506200 | Customer Care No.: 1800-209-0166
Visit us at: www.finolex.com | Email: sales@finolex.com
CIN: L31300MH1967PLC016531

FOR TECHNICAL LITERATURE PLEASE CONTACT OUR BRANCH OFFICES:

Ahmedabad : Tel: 079-26584637 / 26575639 | Bengaluru : Tel: 9845278680 | Bhubaneswar : Tel: 0674-2971188, 2971922 | Chennai : Tel: 044-28231514/28284141 | Chandigarh : Tel: 9316064670 | Cochin : Tel: 9880088155 | Coimbatore : Tel: 0422-2330997 | Dharwad : Tel: 9880088155 | Goa : Tel: 0832-2782003 / 2782065 | Gurgaon : Tel: 9896763770 | Guwahati : Tel: 9435324398 | Indore : Tel: 7314911723 | Jaipur : Tel: 9929111411 | Kolkata : Tel: 0522-4035031 | Lucknow : Tel: 9560299393 | Mumbai : Tel: 022 - 22820062 | New Delhi : Tel: 9870170171 | Patna : Tel: 9934107999 | Pune : Tel: 020 - 27506200 | Raipur : Tel: 7008336581 | Ranchi : Tel: 8101383841 | Secunderabad : Tel: 040 - 27811161 | Uttarakhand : Tel: 9760045003 | Vadodara : Tel: 9879555568 | Vijayawada : Tel: 9848043967

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Finolex
XCEEDS XPECTATIONS

Telephone Cables

FINOLEX CABLES LIMITED

Started in 1958, Finolex Cables Limited is India's largest and leading electrical and telecommunication cables manufacturer. Finolex Cables has always believed in enhancing capabilities and augmenting the product basket. In the last few years besides the cables business the company has forayed into new segments and added new products under the Finolex brand. The company offers Total Electrical Solutions with products like Electrical Wires, 3 Core Flat Cables, Communication Cables, Telecommunication Cables, Flexible Cables, Auto Cables, Conduits, Room Heaters, LED Lights, Switches, Switchgears, Fans, Irons and Water Heaters. Finolex Cables Limited has four manufacturing facilities at Pimpri (Pune), Urse (near Pune), Verna (Goa) and Roorkee (Uttarakhand).

The company is known for its unmatched quality and safety standards which has made it amongst the most reliable brands of the country. Over the six-decade long journey, Finolex Cables has cemented its reputation as an innovative leader and quality manufacturer by continuously upgrading technology, modernizing manufacturing facilities and maintaining the highest standards in quality and service.

FINOLEX TELEPHONE CABLES

Finolex's twisted paired cables are best suited for telephone cabling applications. The conductor is made of solid annealed, electrolytic grade high conductivity bare copper. The conductor is insulated with special grade high-density polyethylene with different colours. The insulated cores are twisted with uniform lay to form pairs and are bunched together in such a manner so as to minimise cross talk. In 50 and 100 pair cables the units of 10 and 20 pairs respectively are identified with colour binders and stranded to form the laid-up cable. The laid-up cable is further jacketed with a grey colour fire retardant (FR) PVC specially formulated and manufactured in-house, with high oxygen and temperature index. The cables can be used for internal telephone wiring in high-rise buildings, offices, factories, hotels, residential complexes, etc. Stringent quality control at every stage, from raw material through manufacturing, up to the finished product guarantees high quality.

SALIENT FEATURES: ■ Low Attenuation ■ Low Crosstalk ■ Fire Retardant Jacket in Grey

Construction Parameters	1 Pair	2 Pair	3 Pair	4 Pair	5 Pair	10 Pair	20 Pair	50 Pair	100 Pair
Conductor (Solid annealed bare copper)	0.4 mm diameter (nom.) & 0.5 mm diameter (nom.)								
Insulation Material (0.4 & 0.5 mm dia.)	High density polyethylene								
Insulation Thickness (Average) 0.4 mm dia. 0.5 mm dia.	0.17 mm 0.20 mm								
Diameter of Insulated Conductor(Maximum) 0.4 mm dia. 0.5 mm dia.	0.90 mm 1.00 mm								
Rip cord (0.4 & 0.5 mm dia.)	Nylon - placed under Jacket for Jacket stripping								
Colour Combination	**For 0.4 mm dia. & 0.5 mm dia.**								
Pair 1	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue
Pair 2	-	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange
Pair 3	-	-	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green
Pair 4	-	-	-	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown
Pair 5	-	-	-	-	White-Grey	White-Grey	White-Grey	White-Grey	White-Grey
Pair 6	-	-	-	-	-	Red-Blue	Red-Blue	Red-Blue	Red-Blue
Pair 7	-	-	-	-	-	Red-Orange	Red-Orange	Red-Orange	Red-Orange
Pair 8	-	-	-	-	-	Red-Green	Red-Green	Red-Green	Red-Green
Pair 9	-	-	-	-	-	Red-Brown	Red-Brown	Red-Brown	Red-Brown
Pair 10	-	-	-	-	-	Red-Grey	Red-Grey	Red-Grey	Red-Grey
Pair 11	-	-	-	-	-	-	Black-Blue	-	Black-Blue
Pair 12	-	-	-	-	-	-	Black-Orange	-	Black-Orange
Pair 13	-	-	-	-	-	-	Black-Green	-	Black-Green
Pair 14	-	-	-	-	-	-	Black-Brown	-	Black-Brown
Pair 15	-	-	-	-	-	-	Black-Grey	-	Black-Grey
Pair 16	-	-	-	-	-	-	Yellow-Blue	-	Yellow-Blue
Pair 17	-	-	-	-	-	-	Yellow-Orange	-	Yellow-Orange
Pair 18	-	-	-	-	-	-	Yellow-Green	-	Yellow-Green
Pair 19	-	-	-	-	-	-	Yellow-Brown	-	Yellow-Brown
Pair 20	-	-	-	-	-	-	Yellow-Grey	-	Yellow-Grey

No. of Unit	1X1P	1X2P	1X3P	1X4P	1X5P	1X10P	1X20P	5X10P	5X20P
Colour of Unit Identification Binder	0.4 mm dia. & 0.5 mm dia.								
Unit 1	-	-	-	-	-	-	-	Blue	Blue
Unit 2	-	-	-	-	-	-	-	Orange	Orange
Unit 3	-	-	-	-	-	-	-	Green	Green
Unit 4	-	-	-	-	-	-	-	Brown	Brown
Unit 5	-	-	-	-	-	-	-	Grey	Grey
PVC Jacket (0.4 mm dia. & 0.5 mm dia.)	FRPVC compound with high oxygen index								
Max. Outer Diameter 0.4 mm dia. 0.5 mm dia.	2.40 3.10	3.10 3.90	3.50 4.20	3.90 5.10	4.30 5.60	8.00 9.00	10.5 11.5	15.5 16.2	22.0 22.8
Packing Length (mtrs) 0.4 mm dia. & 0.5 mm dia.	90 \ 500	90 \ 500	90 \ 500	90 \ 500	90 \ 500	90 \ 500	90 \ 500	500	500

Electrical Parameters	0.4 mm dia	0.5 mm dia
Conductor Resistance (max.) ohms/km at 20°C	143.0	92.20
Mutual Capacitance : (Max.) ηF/km	50	50
Insulation Resistance in Air (min.) M-ohms/km	10,000	10,000
Capacitance Unbalance Pair to Pair (max.) pF/km	250	250

Finolex Cables Limited
AN IS/ISO 9001 CERTIFIED COMPANY

26-27, Mumbai-Pune Road, Pimpri, Pune - 411018, India.
Tel: 020-27506200 I Visit us at: www.finolex.com
Email: sales@finolex.com
CIN: L31300MH1967PLC016531

FOR TECHNICAL LITERATURE PLEASE CONTACT OUR BRANCH OFFICES: Ahmedabad : Tel: 079-26584637 / 26575639 | Bengaluru : Tel: 9845278680 | Bhubaneswar : Tel: 0674-2971188, 2971922 | Chennai : Tel: 044-28231514 / 28284141 | Chandigarh : Tel: 9316064670 | Cochin : Tel: 9880088155 | Coimbatore : Tel: 0422-2330997 | Dharwad : Tel: 9880088155 | Goa : Tel: 0832-2782003 / 2782065 | Gurgaon : Tel: 9896763770 | Guwahati : Tel: 9435324398 | Indore : Tel: 7314911723 | Jaipur : Tel: 9929111411 | Kolkata : Tel: 0522-4035031 | Lucknow : Tel: 9560299393 | Mumbai : Tel: 022 - 22820062 | New Delhi : Tel: 9870170171 | Patna : Tel: 9934107999 | Pune : Tel: 020 - 27506200 | Raipur : Tel: 7008336581 | Ranchi : Tel: 8101383841 | Secunderabad : Tel: 040 - 27811161 | Uttarakhand : Tel: 9760045003 | Vadodara : Tel: 9879555568 | Vijayawada : Tel: 9848043967

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