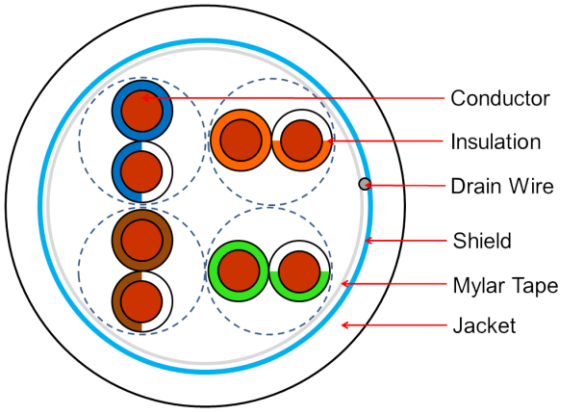

LINK Category 5E, F/UTP Enhance (350MHz) Cable, 24AWG

FEATURES AND BENEFITS

This specification covers the general requirements for FTP cable used for indoor installation. LINK Ultra Category 5E F/UTP cables compliant ISO/IEC 11801 Class D and ANSI/TIA-568.2-D requirements for category 5E performance. These cables are characterized to 350MHz, Powersum NEXT tested and are manufacturing at our UL and RoHS certified.

Standard Compliances

- ANSI/TIA-568.2-D Category 5E
- ANSI/TIA-568-C.2 Category 5E
- ANSI/TIA/EIA-568-B.2-1 Category 5E
- ISO/IEC 11801:2002 Class D
- ISO/IEC 11801:2017 Class D
- EN 50173-1 Category 5E
- EN 50288-3-1, IEC 60332-1-2
- IEC 61156-5, ASTM D4566-98
- UL/NEC, ETL and 3P Verified to TIA/EIA-568-B.2-1 Category 5E
- ICEA S-90-661 Category 5E
- NEMA WC 63.1, UL 1685, UL 1666, UL 444
- RoHS Compliant

Applications Support

- 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet)
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 10 BASE-T (IEEE 802.3 Ethernet)
- 52/155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- POE (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- Baseband, Broadband
- Analog & Digital Voice, Digital & Analog Video

ORDER INFORMATION

Part number	Description	Color	Length	Package
US-9035	Category 5E, 4 Pairs, F/UTP Cable, 24AWG, CMR, 350MHz	White	305 m	Pull Box

*Other jacket color available on request.

PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-D Category 5E)

Frequency (MHz)	Insertion Loss (dB/100m)	NEXT (dB)		ACR-N (dB)		PS NEXT (dB)		PS ACR-N (dB)		ACR-F (dB)		PS ACR-F (dB)		RL (dB)	
	Max.	min	nom	min	nom	min	nom	min	nom	min	nom	min	nom	min	nom
0.772	1.8	79	82	77.2	80.2	77	79	75.2	77.2	70	73	67	69	-	-
1	2	77	80	75	78.3	75	77	73	75.3	68	71	65	67	20	28
4	3.8	68	71	64.2	67.5	66	68	62.2	64.5	56	59	53	55	23	31
8	5.3	64	67	58.7	61.4	62	64	56.7	58.4	50	53	47	49	24.5	32.5
10	6	62	65	56	59.3	60	62	54	56.3	48	51	45	47	25	33
16	7.6	59	62	51.4	54.7	57	59	49.4	51.7	44	47	41	43	25	33
20	8.5	58	61	49.5	52.3	56	58	47.5	49.3	42	45	39	41	25	33
25	9.5	56	59	46.5	49.8	54	56	44.5	46.8	40	43	37	39	24.3	32.3
31.25	10.7	55	58	44.3	47.2	53	55	42.3	44.2	38	41	35	37	23.6	31.6
62.5	15.4	50	53	34.6	37.9	48	50	32.6	34.9	32	35	29	31	21.5	29.5
100	19.8	47	50	27.2	30.4	45	47	25.2	27.4	28	31	25	27	20.1	28.1
155	25.3	44	47	18.7	22.1	42	44	16.7	19.1	24	27	21	23	18.8	26.8
200	29	43	46	14	16.6	41	43	12	13.6	22	25	19	21	18	26
250	32.8	41	44	8.2	11.3	39	41	6.2	8.3	20	23	17	19	17.3	25.3
300	36.6	40	43	3.4	6.5	38	40	1.4	3.5	18	21	15	17	16.8	24.8
350	40	39	42	-	2.1	37	39	-	-	17	20	14	16	16.3	24.3

ELECTRICAL CHARACTERISTIC

Impedance	100 ± 15 Ohms, 1 MHz to 350 MHz
Mutual Capacitance	5.6 nF Max / 100m
Capacitance, Unbalance	300 pF Max / 100m
DC Resistance	9.38 ohm Max./100m
DC Resistance, Unbalance	5% Max.
Dielectric Strength	1kV/min
Insulated Resistance	5000 MΩ/km
Propagation Delay	536 ns/100m Max @350MHz
Delay Skew	25 ns Max
NVP	69%

CABLE CONSTRUCTION

Conductor	**Material**	Solid bare copper
	No. of Conductor	4 Pairs (8 wires)
	Diameter	24 AWG (0.51mm)
Insulation	**Material**	High Density Polyethylene (HDPE)
	Diameter	1.02 ±0.02 mm
Color Code	**Pair 1**	White/Blue – Blue
	Pair 2	White/Orange – Orange
	Pair 3	White/Green – Green
	Pair 4	White/Brown – Brown
Tape	**Material**	Mylar Tape
	Thickness	0.025 mm
Shield	**Material**	AL-Mylar Tape
	Thickness	0.065
Drain wire	**Material**	Tinned annealed copper
	Thickness	24 AWG (0.51 mm)
Jacket	**Material**	Lead free, FR-PVC
	Thickness	0.51 ±0.05mm.
	Color	White
	Cable Diameter	6.1 ±0.2mm.
Marking		Black color in every 2 ft
Flame Rating		CMR (UL 1666, IEC 60332-1-2)
Approval		UL listed file no. E197771

PHYSICAL PROPERTIES

Tensile Strength		110 N (25 lbf)
Ultimate Breaking Strength		>400 N (90lbf)
Min. Bending Radius	**Installation**	8 X Cable Diameter
	Operation	4 X Cable Diameter
Temperature	**Installation/Operation**	-20°C to 60°C
	Storage	-20°C to 80°C

-END OF SPECIFICATION-