



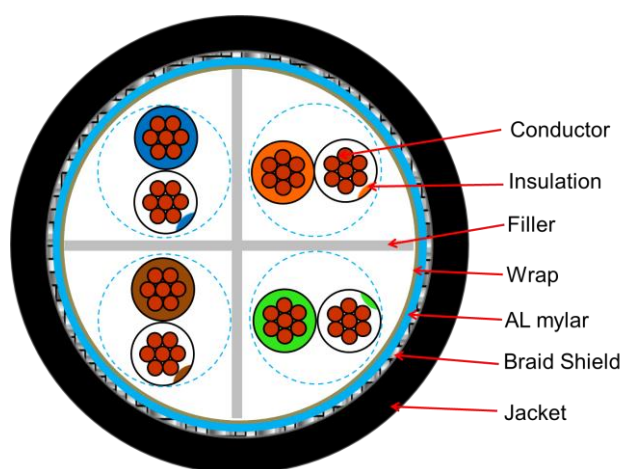
US-9138EF

LINK AMERICAN STANDARD

Scope of Applications

This specification covers the general requirements for SF/UTP cable used for indoor installation. LINK Ultra Category 6 SF/UTP cables compliant ISO/IEC 11801 Class E and ANSI/TIA-568.2-D requirements for category 6 performance. These cables are characterized to 250MHz, Powersum NEXT tested and RoHS certified. The outer jacket material made of special soft PVC, which is highly flexible and elastic, making it suitable for installation in elevators where constant movement occurs.

Drawing



Technical Standards

- ANSI/TIA-568.2-D Category 6
- ANSI/TIA-568-C.2 Category 6
- ISO/IEC 11801:2017 class E
- EN 50173-1 Category 6
- EN 50288-5-1
- IEC 61156-5, IEC 60332-1
- ASTM D4566-98
- NEMA WC 66
- UL 444
- CSA 22.2 No.214
- RoHS Compliant



Cable Construction

Conductor	Material	Stranded Bare Copper
	No. of Conductor	4 Pairs (8 wires)
	Diameter	24 AWG
Insulation	Material	Polyolefin
	Diameter	1.05 ±0.03 mm
Insulated Conductor Color Code	Pair 1	White-Blue / Blue
	Pair 2	White-Orange / Orange
	Pair 3	White- Green / Green
	Pair 4	White-Brown / Brown
Ripcord		Under Jacket
Filler Slot (Cross Filler)	Material	Polyolefin
Wrap	Material	Mylar
Shield	Material	Al-Mylar Tape
Braid Shield	Material	Tinned Stranded Copper
Jacket	Material	Special Soft PVC
	Thickness	0.8 ±0.02 mm
	Color	Black
Cable Diameter		7.8 ±0.2mm
Marking		White color every 2 ft

Electrical Characteristic

Impedance	100 ± 15 Ohms, 1 MHz to 250 MHz
Mutual Capacitance	≤ 5.6 nF Max / 100m
Capacitance, Unbalance	≤ 330 pF Max / 100m
DC Resistance	≤ 9.38 Ω Max./100m
DC Resistance, Unbalance	≤ 5% Max.
Dielectric Strength	≤ 1.5 kV for 2S
Insulated Resistance	≥ 5000 MΩ/km
AC leakage current through the overall jacket	≤ 10mA (1.5 kV AC)
Spark Test	2.5 kV DC
Propagation Delay	≤ 536 ns/100m Max @250MHz
Delay Skew	≤ 45 ns Max
NVP	70%

Physical Properties

Tensile Strength	110 N (25 lbf)	
Ultimate Breaking Strength	>400 N (90lbf)	
Tensile Strength of Jacket	2400 PSI	
Min. Bending Radius	8 X Cable Diameter	
Temperature	Installation/Operation	-20°C to 75°C
	Storage	-20°C to 80°C



PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-D Category 6)

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
1	2.0	78.0	81.0	76.0	79.3	76.0	78.0	73.5	75.8	69.0	72.0	66.0	68.0	20.0	28.0
4	3.8	69.8	72.8	66.0	69.0	67.0	69.0	62.7	65.0	56.5	59.5	53.5	55.5	23.0	31.0
8	5.3	65.4	68.4	60.1	62.8	63.4	65.4	57.1	58.8	51.0	53.1	48.0	50.0	24.5	32.5
10	6.0	63.8	66.8	57.8	61.1	61.2	63.2	54.5	56.8	48.5	51.5	46.4	48.4	25.0	33.0
16	7.6	60.0	63.0	52.4	55.7	58.9	60.9	49.9	52.2	45.0	48.0	42.2	44.2	25.0	33.0
20	8.5	59.0	61.0	50.5	53.3	57.0	59.0	48.0	49.8	42.5	45.5	40.1	42.1	25.0	33.0
25	9.5	57.5	60.5	48.0	51.3	56.8	58.8	44.9	47.2	41.0	44.0	37.7	39.7	24.3	32.3
31.25	10.7	56.0	59.0	45.3	46.2	54.0	56.0	42.8	44.7	38.5	41.5	35.6	37.6	23.6	31.6
62.5	15.4	50.5	53.5	35.1	38.4	52.2	54.2	33.0	35.0	33.0	36.0	29.5	31.5	21.5	29.5
100	19.8	47.5	50.5	27.7	30.9	49.8	51.8	25.6	27.8	28.5	31.5	25.8	27.8	20.1	28.1
200	24.7	44.4	47.4	15.4	18.0	45.0	47.0	12.3	13.9	22.5	25.5	21.7	23.7	18.0	26.0
250	28.9	42.9	45.9	10.9	13.1	43.2	45.2	6.5	8.6	21.2	24.2	18.0	20.0	17.3	25.3

Applications

- Structure cabling for building the backbone
- Structure cabling for horizontal
- 2.5G/5G BASE-T (IEEE 802.3bz)
- 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet)
- 1000 BASE-TX (TIA/EIA-854)
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 10 BASE-T (IEEE 802.3i Ethernet)
- 52/155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (Type4)
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- EtherCAT Industrial standard, HDBaseT 2.0 standard
- Baseband, Broadband
- Digital and analog for data, video, and audio application

Order Information

Part number	Description	Color	Length	Package
US-9138EF	CAT 6 ELEVATOR EXTRA FLEX CABLE	Black	1000FT	Roll

*Other jacket color available on request

Specifications subject to change without notice.

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