

LAN DATA CABLE

Technical Specification

- Cable Type: 4X2X24# U/UTP Category 6 100 Ohm LSOH Indoor Cable
- Part Number: H06-FU704E0L
- Revision: 04/25
- Date: 18 September 2025



Category 6 U/UTP indoor LSOH LAN cable, conforming to TIA/EIA 568.2-D Category 6 PL limits. 4 Un-shielded twisted pairs are cabled together around a star shaped filler and overall jacketed with LSOH compound for indoor use. The cable conforms to IEC 60332-1. The cable is packed in lengths of 305 meter (1000 feet) in an easy pull carton box.

Physical Description

Conductors	Solid 24AWG (UL444), bare annealed copper.			
Insulation	Solid-PO. 0.93±0.05mm			
Total number of insulated conductors	8, twisted in 4 pairs.			
Color Code	■ Blue	■ Orange	■ Green	■ Brown
	□ White	□ White	□ White	□ White
Separator	A star shaped filler			
Rip cord	A rip cord is inserted between the two jackets to facilitate easy removal of the outer jacket.			
Outer jacket	FR-LSOH compound for indoor use			
Outer jacket Color	■ Grey, RAL 7035			
Overall Diameter	5.5±0.3 mm			
Surface Marking	WESTERN WIRE H06-FU704E0L 4x2x24 AWG U/UTP CATEGORY 6 LSOH LAN CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Batch Number] [Sequential Meter Mark] METER			

Transmission Properties @ 20°C conforming to ANSI/TIA-568.2-E Category 5e

FREQ.	Attenuation	RL	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT
MHz	dB/100m	dB	dB	dB	dB/100m	dB/100m
	Max.	Min.	Min.	Min.	Min.	Min.
1	3.0	19.1	65.0	62.0	64.2	61.2
4	3.5	21.0	64.1	61.8	52.1	49.1
8	5.0	21.0	59.4	57.0	46.1	43.1
10	5.5	21.0	57.8	55.5	44.2	41.2
16	7.0	20.0	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19.0	51.5	49.1	36.2	33.2
31.25	10.0	18.5	50.0	47.5	34.3	31.3
62.5	14.4	16.0	45.1	42.7	28.3	25.3
100	18.6	14.0	41.8	39.3	24.2	21.2
200	27.4	11.0	36.9	34.3	18.2	15.2
250	31.1	10.0	35.3	32.7	16.2	13.2

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Mechanical Properties

Bend Radius	Dynamic: 8xD min. Static: 4xD min
Storage temperature	-15 to +60°C
Temperature installation range	0 to +50°C
Temperature operating range	-15 to +60°C
Sheath Tensile strength	13.5 MPa min.
Sheath Elongation at break	150% min.
Pulling force	110 N max.
Flame test	IEC 60332-1
Total Weight	35 kg/km nom.

Electrical Properties @ 20°C

Characteristic Impedance	100±15 Ohm @ 100 MHz
Conductors DC Resistance	9.38 Ohm/100m max.
Resistance unbalance - core to core	2% max.
Resistance unbalance - pair to pair	4% max.
Mutal capacitance	45 nF/km max. @ 1 kHz
Dielectric strength	700V/1m between conductors
Voltage rating	72 Vdc max.

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)