

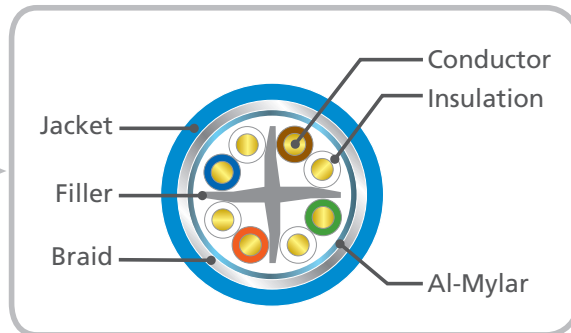
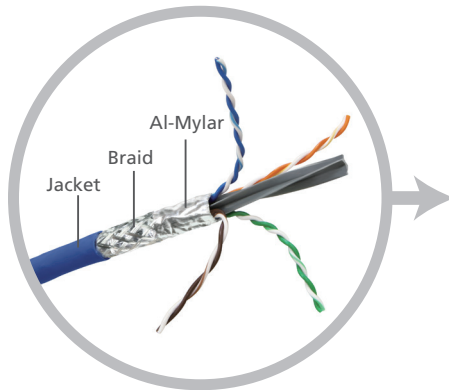
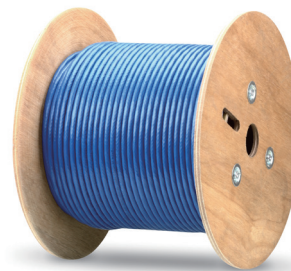
HDBaseT SF/UTP CAT 6 Cable

2L-2910

- The 2L-2910 is a twisted pair cable engineered for optimum signal transmission at resolutions up to 4K including digital and analogue data, audio, and video applications. The cable supports sweep frequency up to 400 MHz and has been verified to meet performance requirements set by the HDBaseT Alliance.

The 2L-2910 supports long distance connections while safeguarding transmission quality. The outer metal layer and the braid protect signal transmissions from electromagnetic interference and reduce the impact caused by electrical noise.

The 2L-2910 utilizes SF/UTP design with four unshielded 23 AWG twisted pair conductors. Among the four unshielded twisted pair conductors, there is one cross filler to reduce cross talk. Most importantly, the cable meets the requirements set by ANSI/TIA-568-C.2 (2009) ensuring high performance in electrical transmission.



Features

- Optimized for multiple distributions including HD video, audio, Ethernet, power and control
- Certified to meet performance requirements set by HDBaseT Alliance
- Supports sweep frequency up to 400 MHz
- Supports up to 4K data transmission
- Conductor material: 23 AWG bare copper
- Outer shielded material: Al Mylar tape
- Braid wire: tinned copper
- Flame test UL 1685 (CM rated), RoHS compliant
- Compatible with ATEN HDBaseT extenders and splitters.
- Regulatory:
 - PoE: IEEE 802.3af (PoE)/ IEEE 802.3at (PoE+)
 - Electrical Transmission: ANSI/TIA-568-C.2 (2009), ISO/IEC 11801 (Edition 2.2), IEC 61156-5 (Edition 2.1)
 - Material and Construction: UL 444, CSA 22.2 NO.214

Electrical Performance

| Frequency | IL | NEXT | PS.NEXT | ACR | PS.ACR | ACRF | PS.ACRF | RL | Propagation Delay | Delay Skew |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|------------|
| (MHz) | Max. | Min. | Min. | Min. | Min. | Min. | Min. | Min. | Max. | Max. |
| | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | ns/100m | ns/100m |
| 1 | 2.03 | 74.30 | F72.30 | 72.28 | 70.28 | 67.80 | 64.80 | 20.00 | 570.00 | 45.00 |
| 4 | 3.78 | 65.27 | 63.27 | 61.49 | 59.49 | 55.76 | 52.76 | 23.01 | 552.00 | |
| 8 | 5.32 | 60.75 | 58.75 | 55.43 | 53.43 | 49.74 | 46.74 | 24.52 | 546.73 | |
| 10 | 5.95 | 59.30 | 57.30 | 53.35 | 51.35 | 47.80 | 44.80 | 25.00 | 545.38 | |
| 16 | 7.55 | 56.24 | 53.24 | 48.68 | 46.68 | 43.72 | 40.72 | 25.00 | 543.00 | |
| 20 | 8.47 | 54.78 | 52.78 | 46.31 | 44.31 | 41.78 | 38.78 | 25.00 | 542.05 | |
| 25 | 9.51 | 53.33 | 51.33 | 43.83 | 41.83 | 39.84 | 36.84 | 24.32 | 541.20 | |
| 31.25 | 10.67 | 51.88 | 49.88 | 41.20 | 39.20 | 37.90 | 34.90 | 23.64 | 540.44 | |
| 62.5 | 15.38 | 47.36 | 45.36 | 31.98 | 29.98 | 31.88 | 29.88 | 21.54 | 538.55 | |
| 100 | 19.80 | 44.30 | 42.30 | 24.50 | 22.50 | 27.80 | 24.80 | 20.11 | 537.60 | |
| 150 | 24.71 | 41.66 | 39.66 | 16.95 | 14.95 | 24.28 | 21.28 | 18.87 | 536.94 | |
| 200 | 28.98 | 39.78 | 47.78 | 10.80 | 8.80 | 21.78 | 18.78 | 18.00 | 536.55 | |
| 250 | 32.85 | 38.33 | 36.33 | 5.48 | 3.48 | 19.84 | 16.84 | 17.32 | 536.28 | |
| 300 | 36.43 | 37.14 | 35.14 | 0.72 | N.A | 18.26 | 15.26 | 16.77 | 536.08 | |
| 350 | 39.79 | 36.14 | 34.14 | N.A | N.A | 16.92 | 13.92 | 16.30 | 535.92 | |
| 400 | 42.97 | 35.27 | 33.27 | N.A | N.A | 15.76 | 12.76 | 15.89 | 535.80 | |

Values above 250MHz are for information only.

Specifications

| Function | 2L-2910 |
|--------------------------------------|--|
| Cable Type | Cat 6 SF / UTP |
| Conductor | |
| Size | 23 AWG |
| Construction | Solid Bare copper |
| Number of Pairs | 4 |
| Shield | |
| Material | Al Mylar tape |
| Coverage | 100% Coverage and mylar side facing out |
| Insulation | |
| Material | Polyolefin |
| Color codes | Blue x White/Blue stripe; Orange x White/Orange stripe; Green x White/Green stripe; Brown x White/Brown stripe |
| Filler | Polyolefin (PO) |
| Braid | Tinned Copper |
| Jacketed | |
| Material | Polyvinyl chloride (PVC) |
| Average Thickness | 0.5 mm +/- 0.05mm |
| Diameter | 7.4 ± 0.20 mm |
| Color | Blue |
| Electrical | |
| Dc Resistance Unbalance | ≤ 5% |
| Conductor Resistance | ≤ 9.38 Ω / 100m |
| Dielectric strength | 1.5 KV ac for 2 s |
| Insulation resistance | ≥ 5000 MΩ•km |
| Mutual Capacitance | ≤ 5.6 nF / 100m |
| Pair-To-Ground Capacitance Unbalance | ≤ 330 pF / 100m |
| Ac Leakage Current Throught | ≤ 10mA (1.5KV AC) |
| Overall Jacket | |
| Spark Test | 2.5 KV DC |
| Minimum bending radius | ≥ 4 times of overall diameter |
| Delay Skew | 45.00 Max.ns / 100m |
| Environmental | |
| Temperature (Operating / Storage) | -20° to 60° C |
| Physical Properties | |
| Weight | 17.57 kg |
| Cable Length | 305m / 1000ft |

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Publish Date: 08/2020 V2.0



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