ETHERNET CABLE EXPERIENCE NEXT GEN SPEED, VERSATILITY AND FIDLEITY

Wireworld Starlight Ethernet is a flat network cable that supports next generation Category 8 transmission speeds while providing greater flexibility and ease of use than conventional round Ethernet cables. Even though it has full sized 23 gauge conductors and triple-shields on each conductor pair, this patent pending Tite-Shield[™] design is just a tenth of an inch thick. This elegant new cable structure also simplifies assembly with Wireworld shielded RJ-45 plugs.

Wireless networking has proliferated our world, but wired Ethernet networks remain the industry standard for speed and security. As wired networks evolve, so does the need for cables that support faster transmission. Starlight Ethernet fulfills that requirement. The flat grooved structure and parallel conductors are a radical departure from the round structure and twisted conductors of conventional high speed Ethernet cables. This flat design was developed to improve performance and solve common challenges. This installation

performance advantage can be used to overcome length limitations in addition to providing the most lifelike reproduction of streamed music and video.

The Category 7 cabling standard was created to satisfy the demands of 10 Gigabit Ethernet. Even though media networks tend to run below that speed, cables that support higher speeds have been found to improve the quality of audio and video streaming. Those improvements are possible because streamed signals suffer from data errors that cannot be repaired by the error correction systems that preserve normal file transfers. The proposed standard for future networks is Category 8, which will support speeds of 40 Gigabits per second.



8 performance Category is difficult to achieve with conventional shielded twisted pair designs. The primary challenge is minimizing crosstalk (mixing) between the four signal channels. To control crosstalk, conventional cables twist the four pairs of conductors and use one foil shield on each pair. An overall two-layer shield reduces outside interference. Twisting the conductors reduces crosstalk, but it also tends to make the conductor lengths uneven, which causes timing errors called skew. Furthermore, conventional twisted pair high speed Ethernet cables are also quite stiff.

The conductors in Wireworld's Tite-Shield design are not twisted at all. Instead, they are arranged as four parallel channels with a dense three-layer shield on each conductor pair. These shields isolate the four channels so effectively that twisting is not required and conductor length differences are eliminated. This pending patent flat design minimizes both crosstalk and skew, providing leading edge

performance, simplified assembly and excellent installation flexibility. The cable also utilizes Wireworld's proprietary Composilex® 2 insulation to minimize triboelectric noise, which is especially helpful when used in vibration prone home theater environments.

Conventional round high speed Ethernet cables are stiff and require special tools to assemble. They also can't bend around sharp turns without losing performance and any excess length creates large coils. In contrast, Starlight Ethernet is flat flexible cable that fits under carpet, bends around corners, coils effortlessly and can be assembled with a simple wire cutter or knife. Starlight Ethernet also has a fresh new look in a bold red color that complements high tech décor.

As network speeds have increased, the cables that can keep up have become stiffer and more difficult to install. Wireworld developed the Starlight Category 8 Ethernet cable to overcome those issues with a flat flexible design that goes where you want and is also easy to assemble. With next generation performance and versatility, Starlight Ethernet provides consumers and IT professionals with new installation options and lasting value.



Starlight[®] Cat8 Ethernet

STE (Standard Termination) SCE (Crossover Termination)

- Impedance: 100 ohms
- Conductors: 23AWG solid silver-clad OFC
- Shields: 3 x 100% coverage
 Bandwidth: 2GHz
- Bandwidth: 2GHZ
 Data rate: 40-Gbit/sec @30 meters
- Data fate. 40-001/sec @30 meters



WIREWORLD[®] CABLE TECHNOLOGY

Engineered for Reality™



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