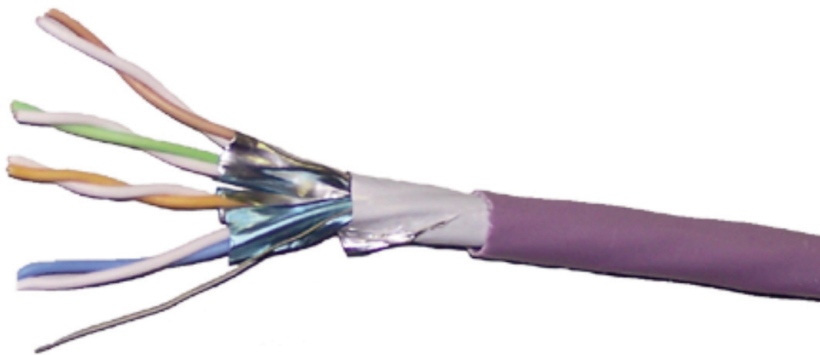


CATEGORY 6A F/FTP CABLE - LSOH

Siemon's category 6A / Class E_A 4-pair F/FTP cable supports channel performance exceeding ANSI/TIA and ISO/IEC category 6A requirements. This cable uses an advanced 3-foil screened design consisting of a 2-pair foil wrap plus an overall plastic laminated foil. When combined with our shielded Z-MAX™ 6A connectivity, the end result is a channel capable of supporting 10GBASE-T operation over 100-meter, 4-connector topologies. In addition, the screened construction ensures virtually zero alien crosstalk.

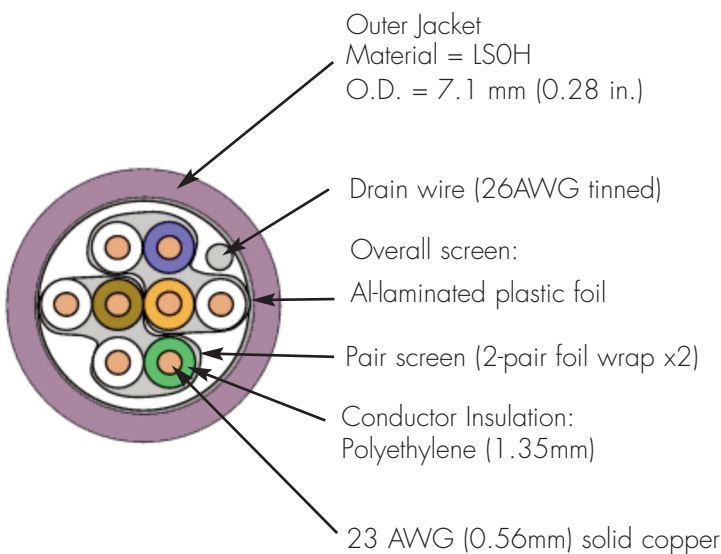


CABLE — INTERNATIONAL



HIGHLIGHTS

- 3-foil shield (2-pair foil wrap plus overall laminated foil)
- Category 6A Performance tested beyond 500 MHz
- Supports all applications designed to operate over standards compliant Class E_A / Category 6A cabling systems including VoIP, IP video and future 10 gigabit applications.



Compliance

- ANSI/TIA-568-C.2 Category 6A
- ISO/IEC 11801 Class E_A
- IEC 61156-5
- EN 50173-1; EN 50288-5-1
- EN 50290-2-27
- IEEE 802.5 16 MB; ISDN; FDDI; ATM
- IEEE 802.3 10 BASE-T, 100 BASE-T, 1000 BASE-T, 10G BASE-T
- IEC 60332-1; IEC 60754-2; IEC 61034

PRODUCT INFORMATION

ELECTRICAL SPECIFICATIONS

| | |
|--|--|
| DC Resistance | 7.7 Ω/100m |
| DC Resistance Unbalance | <2% |
| Mutual Capacitance | 43 nF/km (nom.) |
| Capacitance Unbalance | <1500 pF/km |
| Characteristic Impedance, Function Fitted (ohms) | 1-100 MHz, 100±15/-13% 100-250 MHz, 100±25/-22% 250-500 MHz, 100±32/-24% |
| NVP | 76% |
| TCL | 40-10 log (f) dB |
| Coupling Attenuation | ≥55 dB |
| Delay Skew | ≤12ns/100m |

PHYSICAL PROPERTIES

| | |
|--------------------------|---------------------------|
| | LSOH |
| Pulling Tension (max) | 100N (23 lbf) |
| Bend Radius (min) | 35mm (1.38 in) |
| Installation Temperature | 0 to 50°C (32 to 122°F) |
| Operating Temperature | -20 to 75°C (-4 to 167°F) |

TRANSMISSION PERFORMANCE

ISO/IEC

SIEMON TYPICAL

| Frequency (MHz) | Insertion Loss (dB) | | NEXT (dB) | | PSNEXT (dB) | | ACR (dB) | | PSACR (dB) | | ACR-F (dB) | | PSACR-F (dB) | | Return Loss (dB) | | Propagation Delay (ns) | |
|-----------------|---------------------|------|-----------|-------|-------------|-------|----------|-------|------------|------|------------|-------|--------------|------|------------------|------|------------------------|-----|
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| 1 | 2.1 | 1.9 | 75.3 | 106.3 | 72.3 | 100.2 | 73.2 | 104.4 | 70.2 | 98.3 | 68.0 | 105.4 | 65.0 | 99.9 | 20.0 | 30.3 | 570 | 443 |
| 4 | 3.8 | 3.6 | 66.3 | 108.5 | 63.3 | 101.4 | 62.5 | 104.9 | 59.5 | 97.8 | 56.0 | 102.6 | 53.0 | 94.7 | 23.0 | 26.9 | 552 | 439 |
| 10 | 5.9 | 5.7 | 60.3 | 100.3 | 57.3 | 93.6 | 54.4 | 94.6 | 51.4 | 88.0 | 48.0 | 98.1 | 45.0 | 89.0 | 25.0 | 34.8 | 545 | 435 |
| 16 | 7.5 | 7.1 | 57.2 | 97.9 | 54.2 | 90.5 | 49.8 | 90.8 | 46.8 | 83.4 | 43.9 | 93.7 | 40.9 | 85.7 | 25.0 | 35.3 | 543 | 434 |
| 20 | 8.4 | 8.0 | 55.8 | 94.6 | 52.8 | 88.0 | 47.4 | 86.7 | 44.4 | 80.0 | 42.0 | 92.6 | 39.0 | 84.6 | 25.0 | 34.3 | 542 | 434 |
| 31.25 | 10.5 | 10.1 | 52.9 | 91.2 | 49.9 | 84.4 | 42.4 | 81.2 | 39.4 | 74.3 | 38.1 | 88.6 | 35.1 | 81.5 | 23.6 | 37.6 | 540 | 433 |
| 62.5 | 15.0 | 14.4 | 48.4 | 86.2 | 45.4 | 77.8 | 33.4 | 71.8 | 30.4 | 63.3 | 32.1 | 83.2 | 29.1 | 77.2 | 21.5 | 38.7 | 539 | 432 |
| 100 | 19.1 | 18.3 | 45.3 | 82.9 | 42.3 | 74.1 | 26.2 | 64.7 | 23.2 | 55.8 | 28.0 | 80.5 | 25.0 | 75.0 | 20.1 | 41.2 | 538 | 431 |
| 200 | 27.6 | 26.0 | 40.8 | 74.6 | 37.8 | 68.1 | 13.2 | 48.5 | 10.2 | 42.1 | 22.0 | 71.2 | 19.0 | 64.5 | 18.0 | 28.2 | 537 | 431 |
| 250 | 31.1 | 29.2 | 39.3 | 75.1 | 36.3 | 67.7 | 8.3 | 45.9 | 5.3 | 38.6 | 20.0 | 70.4 | 17.0 | 62.0 | 17.3 | 37.4 | 536 | 430 |
| 300 | 34.3 | 32.1 | 38.1 | 71.8 | 35.1 | 65.4 | 3.9 | 39.7 | 0.9 | 33.3 | 18.5 | 69.3 | 15.5 | 62.9 | 17.3 | 34.0 | 536 | 430 |
| 400 | 40.1 | 37.3 | 36.3 | 69.3 | 33.3 | 62.5 | -3.8 | 32.0 | -6.8 | 25.2 | 16.0 | 59.9 | 13.0 | 54.0 | 17.3 | 27.5 | 536 | 430 |
| 500 | 45.3 | 41.9 | 34.8 | 67.1 | 31.8 | 60.8 | -10.4 | 25.2 | -13.4 | 18.9 | 14.0 | 61.0 | 11.0 | 54.0 | 17.3 | 25.3 | 536 | 430 |
| 550* | 47.7 | 44.3 | 34.2 | 66.7 | 31.2 | 60.0 | -13.5 | 22.4 | -16.5 | 15.7 | 13.2 | 62.1 | 10.2 | 55.9 | 17.3 | 27.6 | 536 | 430 |
| 625* | 51.2 | 47.7 | 33.4 | 61.1 | 30.4 | 53.0 | -17.8 | 13.4 | -20.8 | 5.3 | 12.1 | 52.8 | 9.1 | 45.5 | 17.3 | 30.2 | 535 | 429 |
| 750* | 56.7 | 52.6 | 32.2 | 62.5 | 29.2 | 56.3 | -24.5 | 9.9 | -27.5 | 3.7 | 10.5 | 50.2 | 7.5 | 44.0 | 17.3 | 25.9 | 535 | 430 |

*Values for frequencies beyond 500 MHz are for information only. All performance based on 100-meters.

Category 6A Cable, Solid 23 AWG F/FTP:

9N6L4-A5 (XX)-R2N.....LSOH (IEC 60332-1), 500 meter, plastic reel

Use (XX) to specify jacket color: 02 = white, 08 = violet

For additional cable put-up options please contact Siemon.

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