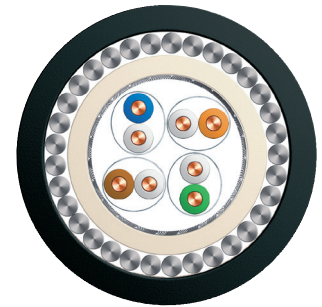


SureLAN® 6a <10Gb> SU/FTP DataGuard® Armoured (SWA)

Cable Design *4x2x23awg SU/FTP*

| | |
|---------------------|-------------------------------------|
| Conductor | Solid bare copper wire, 23awg |
| Insulation | Polyethylene (PE) |
| Core identification | WH/BE - WH/OE - WH/GN - WH/BN |
| Formation | 4 pairs |
| Drain Wire | Optional |
| Screen | Individual Aluminium/polyester tape |
| Shield | Tinned copper wire braid |
| Inner Jacket | LSZH FireFighter® |
| Diameter | Ø 7,70 mm |
| Colour | Ivory |
| Armour | DataGuard® Steel Wire Armour (SWA) |
| Outer Jacket | LSZH FireFighter® |
| Diameter | Ø 11,50 mm |
| Colour | Black |



Application

10 Gigabit high speed data transmission cable for horizontal cable distribution local computer networks. This cable operates at the ISO/IEC EA class for the 10 GBASE-T application and will function up to 550 MHz. IEEE 802.3.

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Resistant

Electrical Data at 20°C

| | |
|--|------------------------------|
| Complete conductor resistance | ≤ 146.4 Ω/km |
| Resistance unbalance | ≤ 2 % |
| Dielectric strength (continuous current) | 1kV during 1min=no breakdown |
| Insulation resistance (500V) | ≥ 5000 MΩ . km |
| Capacitance unbalance Real-ground | ≤ 1600 pF/km |
| Characteristic impedance at 100 MHz | 100 ± 5 Ω |
| Nom. Velocity | 78 % |
| Transfer Impedance | 1 MHz ≤ 10 mΩ/m |
| | 10 MHz ≤ 10 mΩ/m |
| | 30 MHz ≤ 20 mΩ/m |
| | 100 MHz ≤ 30 mΩ/m |

| Frequency (MHz) | Attenuation (dB/100m) | | NEXT (dB) | | ACR dB/100m | EL-FEXT (dB) | | Return Loss (dB) | |
|-----------------|-----------------------|------------|-----------|------------|-------------|--------------|------------|------------------|------------|
| | Nom. | Max. Cat 7 | Nom. | Min. Cat 6 | | Nom. | Min. Cat 6 | Nom. | Min. Cat 6 |
| 1 | 1.8 | [2.0] | 100 | 66 | 98.2 | 92 | 66 | 23 | - |
| 4 | 3.3 | 3.6 | 100 | 65 | 96.7 | 92 | 58 | 27 | 23.1 |
| 10 | 5.3 | 5.7 | 100 | 59 | 94.7 | 92 | 50 | 30 | 25 |
| 16 | 6.7 | 7.2 | 100 | 56 | 93.3 | 92 | 46 | 30 | 25 |
| 20 | 7.5 | 8.1 | 100 | 55 | 92.5 | 90 | 44 | 30 | 25 |
| 100 | 17.3 | 18.5 | 98 | 44 | 80.7 | 75 | 30 | 28 | 20.1 |
| 155 | 21.7 | 23.4 | 94 | 41 | 72.3 | 70 | 26 | 27 | 18.8 |
| 200 | 24.9 | 26.8 | 91 | 40 | 66.1 | 68 | 24 | 25 | 18 |
| 300 | 30.7 | 33.3 | 88 | - | 57.3 | 64 | - | 24 | - |
| 500 | 39.1 | 44.1 | 85 | - | 45.9 | 59 | - | 22 | - |
| 600 | 44.6 | 48.9 | 82 | - | 37.4 | 57 | - | 21 | - |

The performance data given are typical measured values

Specification

| Part Number | Type | Colour |
|-------------|--------------------------------------|--------|
| 147297 | Cat6a <10Gb> SU/FTP DataGuard® (SWA) | 626 |