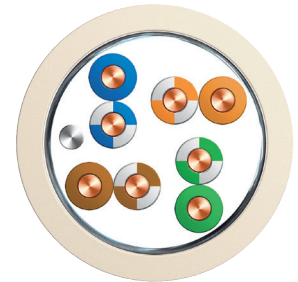


SureLAN® 5e F/UTP LSZH FireFighter IEC60332-1

Cable Design *4x2x24awg F/UTP*

| | |
|---------------------|---------------------------------------|
| Conductor | Solid bare copper wire (24awg) |
| Diameter | Ø 0,500 mm |
| Insulation | Polyethylene (PE) |
| Diameter | Ø 0,95 mm |
| Core identification | WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN |
| Assembly | 2 cores twisted to a pair |
| Core | 4 Shielded pairs |
| Drain Wire | Solid tinned copper |
| Screen | Aluminium/polyester tape |
| Outer Jacket | LSZH FireFighter® |
| Diameter | Ø 6,00 ± 0,25 mm |



Application

High speed data transmission functionality designed typically for use in horizontal cable installation of local computer networks. IEEE 802.3, IEE 802.5, FDDI, ATM, RNIS. These cables operate to the protocol supported by Class D as set out in ISO/IEC 11801 although they can transmit at frequencies of up to 200MHz..

Electrical Data at 20° C

| | |
|--|------------------------------|
| Complete conductor resistance | ≤ 190 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 ≤ 40 mΩ/m |
| | 10 MHz ≤ 40 mΩ/m |
| | 30 MHz ≤ 50 mΩ/m |
| | 100 MHz ≤ 200 mΩ/m |
| Insulation Test Voltage | 700 V AC |

| Frequency (MHz) | | 4 | 10 | 20 | 62.5 | 100 | 155** | 200** |
|-----------------------------------|-----------------|------|------|------|------|------|-------|-------|
| Max. Attenuation (dB/100m) | Typical value | 3.8 | 6 | 8.5 | 15.2 | 19.5 | 25 | 28 |
| | Cat. 5e* (max.) | 4.1 | 6.5 | 9.3 | 17 | 22 | - | - |
| Min. NEXT (dB) | Typical value | 63 | 57 | 52 | 45 | 42 | 39 | 37 |
| | Cat. 5e* (min.) | 56.3 | 50.3 | 45.8 | 38.4 | 35.3 | - | - |
| Min. ACR (dB) | Typical value | 59.2 | 51 | 43.5 | 29.8 | 22.5 | 14 | 9 |
| | Cat. 5e* (min.) | 52.2 | 43.8 | 36.5 | 21.4 | 13.3 | - | - |
| PS NEXT (dB) | Typical value | 60 | 54 | 49 | 42 | 39 | 36 | 34 |
| | Cat. 5e* (min.) | 53.3 | 47.3 | 42.8 | 35.4 | 32.3 | - | - |
| ELFEXT (dB/100m) | Typical value | 63 | 55 | 48 | 39 | 35 | 31 | 29 |
| | Cat. 5e* (min.) | 52 | 44 | 38 | 28 | 24 | - | - |
| PS ELFEXT (dB/100m) | Typical value | 60 | 52 | 45 | 36 | 32 | 28 | 26 |
| | Cat. 5e* (min.) | 49 | 41 | 35 | 25 | 21 | - | - |
| Return Loss (dB) | Typical value | 25 | 25 | 25 | 23.8 | 23 | 22 | 21 |
| | Cat. 5e* (min.) | 23 | 25 | 25 | 21.5 | 20.1 | - | - |

* Category 5 acc. to IEC 61156-5






** For information only

Table continues on next page....

Mechanical & Thermal Characteristics

| | | |
|----------------------|------------------------|-------------------|
| Bending radius | Dynamic (installation) | ≥ 50 mm |
| | Static (installed) | ≥ 25 mm |
| Temperature range | in service | -20°C up to +60°C |
| | at installation | -0°C up to +50°C |
| | transport & storage | -0°C up to +50°C |
| Max. Pulling Tension | | 80 N |
| Weight | | 36 kg/km |

Specification

| Part Number | Type | Colour | PCS (superior calorific capacity) | |
|-------------|------|--|-----------------------------------|--------------|
| | | | <i>MJ/km</i> | <i>kWh/m</i> |
| 4969 | LSZH | Ivory RAL 1015  | 303 | 0,084 |
| 4969-03 | LSZH | Green  | 303 | 0,084 |
| 4969-05 | LSZH | Grey  | 303 | 0,084 |
| 4969-08 | LSZH | Orange  | 303 | 0,084 |
| 4969-09 | LSZH | Violet  | 303 | 0,084 |