

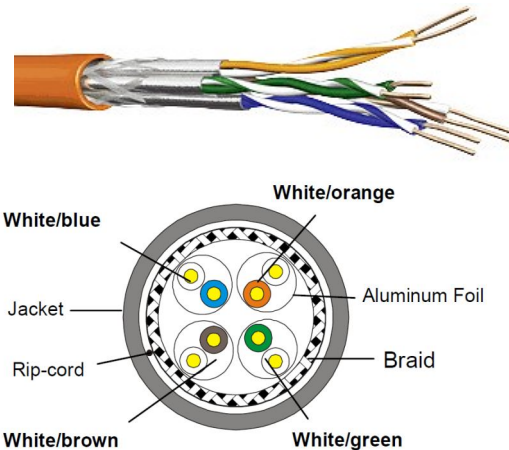
## Copper cable

Cat 7 S/FTP LSFH Cable

### Description

The Huber + Suhner Category 7 shielded cable provides a high quality shielded media for the transmission of all standard Ethernet applications, specified and compliant to category7 component specification at 600 MHz.

- Category 7/Class F compliant
- Suitable for PoE/PoE+ applications
- Low flame-spread LSFH™ jacket material
- Overall shielded and pairs individually shielded.
- Compliant to
  - ISO/IEC 11801 Ed 2.0
  - EIA/TIA-568-C.2
  - EN 50173-1
  - IEC 61156-5
  - EN 50288-4-1
  - IEC 60332-1
  - IEC 60754-2
  - IEC 61034
- Consistent performance
- Margin above standards requirements



### Technical data

#### Construction

| Description        | Values         | Comment |
|--------------------|----------------|---------|
| Pairs              | 4 x 2 x 23 AWG |         |
| Sheath material    | LSFH           |         |
| Conductor material | Copper         |         |

#### Mechanical and environmental data

| Characteristics                         | Values             | Tested acc. to | Comment |
|-----------------------------------------|--------------------|----------------|---------|
| Bending Radius (during installation)    | 8 x Outer diameter |                |         |
| Bending Radius (installed)              | 4 x Outer diameter |                |         |
| Cable Diameter                          | 7.5 mm             |                |         |
| Weight                                  | 63.7 Kg/km         |                |         |
| Maximum Pulling Force                   | 100 N              |                |         |
| Colour                                  | Orange RAL 2003    |                |         |
| Temperature Range (during Installation) | 0°C to + 50°C      |                |         |
| Temperature Range (during operation)    | -20°C to + 60°C    |                |         |
| Reaction to fire                        | Eca                | EN 50575       |         |
| Compliant with RoHS and REACH           | Yes                |                |         |

#### Electrical data

| Description                                    | Values                                                             | Comment  |
|------------------------------------------------|--------------------------------------------------------------------|----------|
| Impedance(Ω)                                   | (1-100MHz) 100±15Ω<br>(100-250MHz) 100±18Ω<br>(250-600MHz) 100±25Ω | (at 20□) |
| Delay Shew (ns/100m)                           | ≤25                                                                |          |
| Velocity of Propagation (%)                    | 74                                                                 | (at 20□) |
| unbalanced-to-ground capacitance (pf/100m) max | 330                                                                | (at 20□) |
| DC Resistance (Ω/100m) max                     | 9.5                                                                | (at 20□) |
| DC Conductor Resistance Unbalance (%) max      | 2.0                                                                | (at 20□) |

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### Transmission data

| Frequency<br>(MHZ) | Return Loss<br>(dB) | Attenuation<br>(dB/100m) | NEXT<br>(dB) | PS-NEXT<br>(dB) | ELFEXT<br>(dB/100m) | PS-ELFEXT<br>(dB/100m) | DELAY<br>(ns) |
|--------------------|---------------------|--------------------------|--------------|-----------------|---------------------|------------------------|---------------|
| 1                  | 20.0                | 2.0                      | 78.0         | 75.0            | 78.0                | 75.0                   | 570.00        |
| 4                  | 23.0                | 3.74                     | 78.0         | 75.0            | 78.0                | 75.0                   | 552.00        |
| 8                  | 24.5                | 5.24                     | 78.0         | 75.0            | 75.9                | 72.9                   | 546.7         |
| 10                 | 25.0                | 5.86                     | 78.0         | 75.0            | 74.0                | 71.0                   | 545.4         |
| 16                 | 25.0                | 7.41                     | 78.0         | 75.0            | 69.9                | 66.9                   | 543.0         |
| 20                 | 25.0                | 8.29                     | 78.0         | 75.0            | 68.0                | 65.0                   | 542.0         |
| 25                 | 24.3                | 9.29                     | 78.0         | 75.0            | 66.0                | 63.0                   | 541.2         |
| 31.25              | 23.6                | 10.41                    | 78.0         | 75.0            | 64.1                | 61.1                   | 540.4         |
| 62.5               | 21.5                | 14.88                    | 75.5         | 72.5            | 58.1                | 55.1                   | 538.6         |
| 100                | 20.1                | 19.02                    | 72.4         | 69.4            | 54.0                | 51.0                   | 537.6         |
| 200                | 18.0                | 27.47                    | 67.9         | 64.9            | 48.0                | 45.0                   | 536.5         |
| 250                | 17.3                | 30.97                    | 66.4         | 63.4            | 46.0                | 43.0                   | 536.3         |
| 300                | 17.3                | 34.19                    | 65.2         | 62.2            | 44.5                | 41.5                   | 536.1         |
| 600                | 17.3                | 50.1                     | 60.7         | 57.7            | 38.4                | 35.4                   | 535.5         |

### Ordering information

| Description                                                                                     | Item number | Comment |
|-------------------------------------------------------------------------------------------------|-------------|---------|
| Category 7 copper Cable, S/FTP, 4 Pairs, 23AWG,Solid Conductor , LSFH jacket, orange, 500m/drum | 85066239    |         |

### Related documents

| Description | Document number |
|-------------|-----------------|
| None        |                 |

### Additional information

| Description                        |                            |
|------------------------------------|----------------------------|
| Microsite for Data Center solution | datacenter.hubersuhner.com |