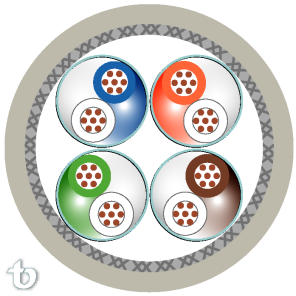
# Cat. 7 4x2x26/7 AWG S/FTP Work Area FR-LSZH
# COMPUTER & LAN
# P/N 9928244101

**TELECOM**

## Applications

High data rates, Work area cabling, Indoor use, portable installations, Patch cord

| Outer Jacket Material | Outer diameter | Weight |
|---|---|---|
| FR-LSZH | 6.2 mm nom. | 45 kg/km |



## General Construction

The cable contains 4 individually aluminum-foil shielded twisted pairs, cabled, overall shielded with tinned copper braid and jacketed. The cable is compatible with RJ-45 modular plugs.

## Design & Materials

| | |
|---|---|
| Conductor Material | Annealed Bare Copper |
| Conductor Size (AWG) | 26 |
| Conductor Size (mm) | 7x0.16 |
| Conductor Construction | Stranded |
| Insulation Material | SFS PO |
| Insulation O.D. (mm nom) | 1.05 |
| Conductor Unit Identification | Solid Color |
| Conductor Color Code | White X Blue, White X Orange, White X Green, White X Brown |
| Ind. Shield Material | Aluminum/Polyester Foil |
| Ind. Shield Design | Helically applied aluminum foil, 100% coverage |
| Conductor Unit Lay-Up | Pairs |
| Overall Braid Shield | Yes |
| Overall Braid Material | Annealed Tinned Copper |
| Braid Coverage (% nom) | 45 |
| Total Number Of Conductors | 8 |
| Outer Diameter (mm min) | 5.8 |
| Outer Diameter (mm max) | 6.4 |
| Outer Jacket Color | Black |
| Marking | Teldor Standard\|Per request |

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## Performance

| | |
|---|---|
| Frequency Range (MHz) | 1 - 900 |
| Impedance (Ω) | 100 +/- 5 (fitted) |
| Transfer Impedance Grade | Grade 1 |
| Coupling Attenuation | Type I |
| DC Resistance (Ω/km nom) | 145 |
| Max. Resistance Unbalance (%) | 2 |
| Capacitance (pF/m) | 44 |
| Capacitance Unbalance (pF/m max) | 1.2 |
| Velocity of Propagation (% nom) | 78 |
| Propagation Delay Skew (ns/100m max) | 20 |
| Dielectric Strength (V/minute) | 500 |
| Dielectric Strength to Shield (V/minute) | 500 |
| Min. Insulation Resistance (MΩ•km) | 5000 |
| Min. Insulation Resistance (GΩ•km) | 5 |
| Min. Bend Radius (mm) | 5xD |
| Min. Operating Temperature (°C) | –40 |
| Max. Operating Temperature (°C) | +85 |

## Standards

Flammability Rating
IEC 60332-1
IEC 60754-1/2
IEC 61034-1/2

Applicable Standards
IEC 61156-6
IEEE 802.3af (PoE)
IEEE 802.3at (PoE+)
IEEE 802.3bt (4PPoE)
ISO/IEC 11801-1
ANSI/TIA-568.2-D
RoHS 3 2015/863/EU

## Electrical Properties

| Freq. MHz | Attenuation dB/100m 20°C | | PS NEXT Loss dB | | NEXT Loss dB | | RL dB | | PS ANEXT dB | | PS ELFEXT dB | | ELFEXT dB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Typical Value | Cat. 7 | Typical Value | Cat. 7 | Typical Value | Cat. 7 | Typical Value | Cat. 7 | Typical Value | Cat. 7 | Typical Value | Cat. 7 | Typical Value | Cat. 7 |
| 1 | 2.9 | 3.0 | 105.0 | 99.4 | 108.0 | 102.4 | 22.0 | 20.0 | 68.0 | N/A | 95.0 | 75.0 | 98.0 | 78.0 |
| 4 | 5.4 | 5.6 | 98.0 | 90.4 | 101.0 | 93.4 | 25.0 | 23.0 | 68.0 | N/A | 90.0 | 75.0 | 93.0 | 78.0 |
| 10 | 8.5 | 8.8 | 95.0 | 84.4 | 98.0 | 87.4 | 28.0 | 25.0 | 68.0 | N/A | 86.0 | 71.0 | 89.0 | 74.0 |
| 20 | 12.1 | 12.4 | 90.0 | 80.0 | 93.0 | 83.0 | 28.0 | 25.0 | 68.0 | N/A | 80.0 | 65.0 | 83.0 | 68.0 |
| 30 | 14.8 | 15.3 | 85.0 | 77.2 | 88.0 | 80.2 | 27.0 | 23.8 | 68.0 | N/A | 76.0 | 61.5 | 79.0 | 64.5 |
| 100 | 27.7 | 28.5 | 80.0 | 69.4 | 83.0 | 72.4 | 24.0 | 21.1 | 68.0 | N/A | 66.0 | 51.0 | 69.0 | 54.0 |
| 150 | 34.3 | 35.3 | 78.0 | 66.7 | 81.0 | 69.7 | 22.0 | 18.8 | 65.0 | N/A | 63.0 | 47.5 | 66.0 | 50.5 |
| 200 | 40.0 | 41.2 | 78.0 | 65.0 | 81.0 | 68.0 | 21.0 | 18.0 | 65.0 | N/A | 60.0 | 45.0 | 63.0 | 48.0 |
| 250 | 45.1 | 46.5 | 75.0 | 63.4 | 78.0 | 66.4 | 20.0 | 17.3 | 62.0 | N/A | 58.0 | 43.0 | 61.0 | 46.0 |
| 300 | 49.7 | 51.3 | 75.0 | 62.2 | 78.0 | 65.2 | 19.0 | 17.3 | 62.0 | N/A | 52.0 | 41.5 | 55.0 | 44.5 |
| 400 | 58.2 | 60.0 | 70.0 | 60.4 | 73.0 | 63.4 | 19.0 | 17.3 | 62.0 | N/A | 49.0 | 38.9 | 52.0 | 41.9 |
| 500 | 65.8 | 67.9 | 70.0 | 58.9 | 73.0 | 61.9 | 19.0 | 17.3 | 62.0 | N/A | 47.0 | 37.0 | 50.0 | 40.0 |

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| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 600 | 72.9 | 75.1 | 70.0 | 57.7 | 73.0 | 60.7 | 19.0 | 17.3 | 62.0 | N/A | 45.0 | 35.4 | 48.0 | 38.4 |

*Supplied cables meet the minimum Cat. 7 transmission requirements as per IEC 61156-6 Ed. 2

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