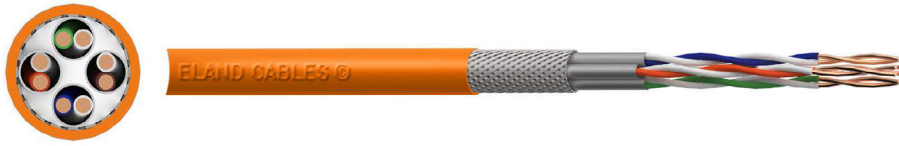


## Cat 7 S/FTP 4 Pair LSZH Cable



Eland Product Group: A8N

### APPLICATION

Data cable for high bandwidth, high speed applications.  
10 Gigabit Ethernet over 100m. Individual and overall screening to meet strict Crosstalk requirements.  
Backwards compatible with Cat 5e and Cat 6.

### CHARACTERISTICS

#### Temperature Rating

-20 to +70 °C

#### Minimum Bending Radius

Fixed: 4 x overall diameter

Flexed: 8 x overall diameter

### CONSTRUCTION

#### Conductor

Bare copper conductor

#### Insulation

Foam-skin Polyethylene (PE)

#### Individual Screen

Aluminium/Mylar Tape

#### Drain Wire

Tinned copper

#### Outer Screen

Tinned copper wire braid (TCWB)

#### Sheath

LSZH (Low Smoke Zero Halogen)

#### Core Identification

Pair 1: ● Blue ● White/Blue

Pair 2: ● Orange ● White/Orange

Pair 3: ● Green ● White/Green

Pair 4: ● Brown ● White/Brown

### STANDARDS

ISO/ IEC 61156-5, EN 50288-4, TD/T1019

Flame Retardant according to BS EN/IEC 60332-3-24

### THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECCE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



### SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.elandcables.com/company/about-us/esg-sustainability](http://www.elandcables.com/company/about-us/esg-sustainability)



### REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

| ELAND PART NO. | NO. OF PAIRS | AWG | NOMINAL THICKNESS OF INSULATION<br>mm | NOMINAL OVERALL DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/305m |
|----------------|--------------|-----|---------------------------------------|--------------------------------|---------------------------|
| A8NFORCE7LSZH  | 4            | 23  | 1.33                                  | 7.5                            | 19                        |

## PERFORMANCE CHARACTERISTICS

| FREQUENCY<br>MHz | RETURN LOSS<br>(RL)<br>≥dB | ATTENUATION<br>(ATT)<br>≤dB | NEAR END<br>CROSSTALK (NEXT)<br>≥dB | PHASE<br>DELAY<br>≤ns | POWER SUM NEAR END<br>CROSSTALK (PS NEXT)<br>≥dB | EQUAL LEVEL FAR END<br>CROSSTALK (ELFEXT)<br>≥dB | POWER SUM EQUAL LEVEL FAR END<br>CROSSTALK (PSELFEXT)<br>≥dB |
|------------------|----------------------------|-----------------------------|-------------------------------------|-----------------------|--|--|--|
| 1.0              | 20.0                       | -                           | 78.0                                | 570.0                 | 75.0   | 78.0   | 75.0   |
| 4.0              | 23.0                       | 3.74                        | 78.0                                | 552.0                 | 75.0   | 78.0   | 75.0   |
| 8.0              | 24.5                       | 5.24                        | 78.0                                | 546.7                 | 75.0   | 75.9   | 72.9   |
| 10.0             | 25.0                       | 5.86                        | 78.0                                | 545.4                 | 75.0   | 74.0   | 71.0   |
| 16.0             | 25.0                       | 7.41                        | 78.0                                | 543.0                 | 75.0   | 69.9   | 66.9   |
| 20.0             | 25.0                       | 8.29                        | 78.0                                | 542.0                 | 75.0   | 68.0   | 65.0   |
| 25.0             | 24.3                       | 9.29                        | 78.0                                | 541.2                 | 75.0   | 66.0   | 63.0   |
| 31.25            | 23.6                       | 10.41                       | 78.0                                | 540.4                 | 75.0   | 64.1   | 61.1   |
| 62.5             | 21.5                       | 14.88                       | 75.5                                | 538.6                 | 72.5   | 58.1   | 55.1   |
| 100              | 20.1                       | 19.02                       | 72.4                                | 537.6                 | 69.4   | 54.0   | 51.0   |
| 150              | 18.9                       | 23.56                       | 69.8                                | 536.9                 | 66.8   | 50.2   | 47.2   |
| 200              | 18.0                       | 27.47                       | 67.9                                | 536.5                 | 64.9   | 48.0   | 45.0   |
| 250              | 17.3                       | 30.97                       | 66.4                                | 536.3                 | 63.4   | 46.0   | 43.0   |
| 300              | 17.3                       | 34.19                       | 65.2                                | 536.1                 | 62.2   | 44.5   | 41.5   |
| 600              | 17.3                       | 50.10                       | 60.7                                | 535.5                 | 57.7   | 38.4   | 35.4   |

## ELECTRICAL CHARACTERISTICS

| IMPEDANCE<br>ohms |            |            | MAXIMUM DC<br>RESISTANCE<br>ohms/100m | MAXIMUM DC CONDUCTOR<br>RESISTANCE<br>% | VELOCITY<br>OF PROPAGATION<br>% |
|-------------------|------------|------------|---------------------------------------|---|---------------------------------|
| 1-100MHz          | 100-250MHz | 100-250MHz |                                       |   |                                 |
| 100±15            | 100±18     | 100±25     | 9.5                                   | 2.0                                     | 74                              |

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.