

# 8451 PVC - LSF Alternative Cable



Eland Product Group: A3B

## APPLICATION

8451 Alternative cable is suitable for use in instrumentation, data and audio applications where protection against electrical interference is required. Cables with polyethylene insulation show lower signal loss than those using PVC.

## CHARACTERISTICS

**Voltage Rating**  
300V

**Temperature Rating**  
Fixed: -20°C to +75°C

## CONSTRUCTION

**Conductor**  
Class 2 stranded tinned copper

**Insulation**  
PE (Polyethylene)

**Screen**  
Aluminium foil

**Drain Wire**  
Tinned copper

**Sheath**  
PVC-LSF (Polyvinyl Chloride-Low Smoke Fume)

**Core Identification**  
● Black ● Red

**Sheath Colour**  
● Grey

## DIMENSIONS

| ELAND PART NO. | NO. OF PAIRS | AWG<br>(NO. OF STRANDS) | NOMINAL DIAMETER<br>OF STRANDS<br>mm | NOMINAL OVERALL<br>DIAMETER<br>mm | NOMINAL<br>WEIGHT<br>kg/km |
|----------------|--------------|-------------------------|--------------------------------------|-----------------------------------|----------------------------|
| A3B8451LSFGR   | 1            | AWG22(7)                | 0.254                                | 3.5                               | 23                         |

## ELECTRICAL CHARACTERISTICS

| CAPACITANCE AT 1kHz<br>pF/m | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C<br>ohms/km |
|-----------------------------|--|
| 111.5                       | 47.6   |

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.

## THE CABLE LAB®

### AN ISO/IEC 17025 AND IECEE 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)



SCIENCE  
BASED  
TARGETS

BUSINESS  
AMBITION FOR 1.5°C



## 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®.

