

# MV IEC 60502-2 Aerial Bundle Cable (ABC) 19/33kV



Eland Product Group:C1F

## APPLICATION

Medium Voltage aerial bundled cables are mainly used for secondary overhead lines on poles or as feeders to residential premises.

## CONSTRUCTION

### Phase Conductor

Class 2 Circular compacted stranded Aluminium

### Conductor Screen

Extruded semi-conductive layer

### Insulation

XLPE (Cross-linked polyethylene)

### Insulation Screen

Extruded semi-conductive layer

### Metallic Screen

Copper wire screen or copper tape screen

### Separator

Semi-conductive swellable tape

### Outer Sheath

HDPE (High Density polyethylene)

### Support Conductor

Galvanized steel wires

## STANDARDS

IEC 60502-2

## 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)



## REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.





## DIMENSIONS

| ELAND<br>PART<br>NUMBER | NUMBER OF<br>CORES | NOMINAL<br>SECTIONAL AREA<br>mm <sup>2</sup> | PHASE<br>CONDUCTOR<br>STRANDING<br>NO.X<br>mm <sup>2</sup> | SUPPORT<br>CONDUCTOR<br>STRANDING<br>NO. X<br>mm <sup>2</sup> | MAXIMUM<br>CONDUCTOR<br>RESISTANCE $\Omega$ /Km | BREAKING<br>LOAD<br>KN | CONTINUOUS<br>CURRENT<br>RATING AT<br>30°C AMBIENT<br>TEMP A |
|-------------------------|--------------------|--|--|---|---|------------------------|--|
| C1F33KV3050/50          | 3+1                | 50/50  | 19/1.78  | 7/3.0   | 0.641/0.641                                     | 60                     | 165  |
| C1F33KV3070/50          | 3+1                | 70/50  | 19/2.14  | 7/3.15  | 0.443/0.641                                     | 62                     | 250  |
| C1F33KV3150/50          | 3+1                | 150/50                                       | 37/2.25  | 7/3.0   | 0.206/0.641                                     | 60                     | 315  |
| C1F33KV3185/120         | 3+1                | 185/120                                      | 37/2.52  | 7/3.57  | 0.164/0.443                                     | 91                     | 355  |

## TECHNICAL INFORMATION

| NOMINAL<br>CROSS SECTION<br>mm <sup>2</sup> | CONTINUOUS CURRENT RATING |                |                |
|---|---------------------------|----------------|----------------|
|   | STILL AIR<br>A            | 1M/S WIND<br>A | 2M/S WIND<br>A |
| 50  | 125                       | 170            | 200            |
| 70  | 150                       | 215            | 250            |
| 150   | 230                       | 340            | 395            |
| 185   | 265                       | 390            | 450            |