

## MCMO-HF Cable



Eland Product Group: B1R

### APPLICATION

The MCMO-HF cable is suitable for fixed installation indoors and outdoors and in soil. The cables are intended for control and signalling functions in power electric application. Where needed halogen free, non corrosive gases and low smoke density cables. Self extinguishing, no after-burning.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
450/750V

**Temperature Rating**

Minimum temperature during handling and installation: -15°C  
Minimum temperature during transport: -40°C  
Maximum Conductor Temperature: +90°C

**Short Circuit Temperature**  
+250°C

**Minimum Bending Radius**  
Installation: 12 x overall diameter  
Operation: 8 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 1 Circular solid copper

**Insulation**  
Halogen free XLPE (Cross-linked polyethylene)

**Inner Sheath**  
Extruded halogen free filling compound

**Concentric Conductor**  
Copper wires and bidding tape

**Outer Sheath**  
Extruded halogen free and UV-resistant compound

**Core Identification**  
● Black numbered

**Sheath Colour**  
● Black

### STANDARDS

HD 627 S1:1996/A2:2005 Part 7 Section D-2, IEC 60228, IEC/EN 60754-2, IEC/EN 61034-2

Flame retardant according to EN-60332-3-23

### ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



### 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 and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





## DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NOMINAL OUTER DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|---|------------------------------|-------------------------|
| B1R70015       | 7            | 1.5   | 15                           | 320                     |
| B1R70025       | 7            | 2.5   | 17                           | 420                     |
| B1R120015      | 12           | 1.5   | 19                           | 470                     |
| B1R120025      | 12           | 2.5   | 21                           | 620                     |
| B1R190015      | 19           | 1.5   | 22                           | 630                     |
| B1R190025      | 19           | 2.5   | 25                           | 880                     |
| B1R270015      | 27           | 1.5   | 25                           | 830                     |
| B1R270025      | 27           | 2.5   | 28                           | 1200                    |

## ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C<br>ohm/km | MAXIMUM CONCENTRIC CONDUCTOR DC RESISTANCE AT 20°C<br>ohm/km |
|---|---|--|
| 1.5   | 12.1  | 3.08   |
| 2.5   | 7.41  | 3.08   |

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.