

# Power To The Antenna D-CORE - Eca (N2XCY)

## POWER TO THE ANTENNA D-CORE - ECA 10MM<sup>2</sup>

Power To The Antenna D-CORE is a shielded dual conductor power cable. It can be used as a DC power cable for the interconnexion between Base Unit and Radio Units on mobile towers or rooftops. The D-shape of the isolated conductors enables to reduce the diameter and weight of these cables with no negative impact on the properties. It also has best-in-class flexibility.

### Applications

- Power cable 0.6/1.0 kV
- For indoor/outdoor applications
- Used on mobile phone masts

### Cable construction

1. Bare conductor strand - Class 5
2. Insulation (IEC 60811-1)XLPE
3. Longitudinal ALU/PET tape
4. Tinned copper braid (Coverage US >65%)
5. Outer sheath: HFFR - Black - Eca (EN50575)

### Environment

Designed to reduce the environment impact, Aginode cables are compliant with RoHS 2011/65 Directive and European Reach 1907/2006/EC regulation.

### D-CORE Picture



### STANDARDS

- EN 50575
- IEC 60228
- IEC 60332-1
- IEC 60502-1

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

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## Characteristics

### Construction characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Screen             | Polyester tape - tinned copper braid |
| Outer sheath       | LSZH                                 |
| Sheath colour      | Black                                |
| Wire colour        | Blue - Brown                         |
| Conductor material | Bare copper class 5                  |
| Insulation         | XLPE                                 |

### Dimensional characteristics

|                                 |                    |
|---------------------------------|--------------------|
| Approximate weight              | 320 kg/km          |
| Outer Diameter                  | 13 mm              |
| Number of cores                 | 2                  |
| Conductor cross-section         | 10 mm <sup>2</sup> |
| Diameter over insulation, range | 5.9...6.1 mm       |

### Electrical characteristics

|   |             |
|---|-------------|
| Max. DC resistance of the conductor at 20°C | 1.95 Ohm/km |
| Minimum insulation resistance               | 10 MOhm.km  |
| Breakdown voltage V <sub>cc</sub> , 5 min.  | 3500.0 V    |

### Usage characteristics

|                               |                          |
|-------------------------------|--------------------------|
| Gases corrosivity             | IEC 60754-1; IEC 60754-2 |
| Operating temperature, range  | -40...90 °C              |
| Flame retardant               | IEC 60332-1              |
| Smoke density                 | EN/IEC 61034-2           |
| Packaging                     | Drum 500 m               |
| Storage temperature, range    | -40...50 °C              |
| Bending factor when laying    | 8 (xD)                   |
| Bending factor when installed | 4 (xD)                   |

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