

# Power To The Antenna D-CORE - Eca

Power To The Antenna D-CORE - Eca 4mm<sup>2</sup>

## Contact

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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.

## DESCRIPTION

### 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, Nexans cables are compliant with RoHS 2011/65 Directive and European Reach 1907/2006/EC regulation.



# UPSKY™

## STANDARDS

International EN 50575;  
IEC 60228; IEC 60332-1;  
IEC 60502-1;  
Nexans specification



Flame retardant  
IEC 60332-1



Smoke density  
EN/IEC 61034-2



Gases corrosivity  
IEC 60754-1, IEC  
60754-2



Operating temp.  
-40 - 90 °C



Storage temperature,  
range  
-40 - 50 °C



Bending factor installed  
4 (xD)



Bending factor when  
laying  
8 (xD)

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

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## CHARACTERISTICS

### Construction characteristics

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

### Dimensional characteristics

|                                 |                   |
|---------------------------------|-------------------|
| Conductor cross-section         | 4 mm <sup>2</sup> |
| Outer Diameter                  | 11 mm             |
| Approximate weight              | 177 kg/km         |
| Diameter over insulation, range | 3.9 - 4.1 mm      |
| Number of cores                 | 2                 |

### Electrical characteristics

|   |             |
|---|-------------|
| Minimum insulation resistance               | 10 MOhm.km  |
| Breakdown voltage Vcc, 5 min.               | 3500 V      |
| Max. DC resistance of the conductor at 20°C | 5.09 Ohm/km |

### Usage characteristics

|                               |                          |
|-------------------------------|--------------------------|
| Flame retardant               | IEC 60332-1              |
| Smoke density                 | EN/IEC 61034-2           |
| Gases corrosivity             | IEC 60754-1, IEC 60754-2 |
| Operating temperature, range  | -40 - 90 °C              |
| Storage temperature, range    | -40 - 50 °C              |
| Bending factor when installed | 4 (xD)                   |
| Bending factor when laying    | 8 (xD)                   |
| Packaging                     | Drum 1000m               |

## D-CORE PICTURE



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