

# MV SOLAR SINGLE CORE XLPE ATA MDPE 18/30(36)kV AD7 - 50mm<sup>2</sup> to 800mm<sup>2</sup>



## Description

This is a Medium Voltage (MV) armoured power cable used to transmit high-voltage electricity. It is primarily used in renewable energy projects, such as solar parks and wind farms, to route generated power from inverters and collection stations into the wider electrical grid. The cable is manufactured generally to IEC 60502-2 with aluminium conductor to IEC 60228 Class 2.

Suitable for external installation, these cables can be installed on cable trays, within conduits or fixed to walls. They are suitable for burial in ducts. The MDPE outer sheath is UV Resistant and water resistant to AD7.

## Key Features



**Voltage Rating**  
18/30 (36)kV



**Minimum Bending Radius**  
15 x Overall Diameter



**Temperature Limits**  
Temperature Range: -15°C to +90°C

## Standards

- IEC 60502-2
- BS EN/IEC 60228

## Construction

- **Conductor:** Class 2 Stranded Circular Compacted Aluminium Conductor
- **Inner Semi-Conductor:** Bonded Semi-Conductive Material
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Outer Semi Conductor:** Extruded Outer Semi Conductor (Strippable Type)
- **Screen:** Copper Tape Screen (CTS)
- **Bedding:** Polyvinyl Chloride (PVC)
- **Armour:** Aluminium Tape Armour (ATA)
- **Sheath:** Polyvinyl Chloride (PVC)
- **Outer Sheath:** Medium Density Polyethylene (MDPE)

## QA Lab

### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



## CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



## Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



## ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

## ecovadis

## MV SOLAR SINGLE CORE XLPE ATA MDPE 18/30(36)kV AD7 - 50mm<sup>2</sup> to 800mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
MVSOLARAT1X50/AD7	50	1	8	2.1	37.4	1500
MVSOLARAT1X70/AD7	70	1	8	2.2	39.2	1655
MVSOLARAT1X95/AD7	95	1	8	2.2	40.7	1810
MVSOLARAT1X120/AD7	120	1	8	2.3	42.3	1975
MVSOLARAT1X150/AD7	150	1	8	2.3	44.5	2170
MVSOLARAT1X185/AD7	185	1	8	2.4	45.6	2325
MVSOLARAT1X240/AD7	240	1	8	2.5	48.2	2625
MVSOLARAT1X300/AD7	300	1	8	2.5	50.8	2945
MVSOLARAT1X400/AD7	400	1	8	2.6	53.3	3555
MVSOLARAT1X500/AD7	500	1	8	2.7	56.7	3860
MVSOLARAT1X630/AD7	630	1	8	2.9	61.6	4615
MVSOLARAT1X800/AD7	800	1	8	3	67.2	5530

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