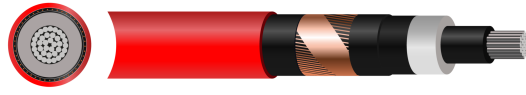


## ARG7H1R Cable - 25mm<sup>2</sup> to 630mm<sup>2</sup>



### Description

ARG7H1R cables are medium-voltage aluminium power cables designed for primary electrical distribution networks and industrial applications. These cables are widely used by power utilities and in heavy industry to connect electrical substations, transformer stations, and major production facilities. Operating at voltage ratings from 1.8/3kV up to 18/30kV, they provide efficient and reliable power transmission across power grids and infrastructure networks.

The cable construction features a Class 2 compact stranded aluminium conductor for a lightweight design, insulated with Hard Grade Ethylene Propylene Rubber (HEPR) G7 insulation. It includes a copper wire braid or tape screen to eliminate electrical interference and is finished with a tough, flame-retardant Polyvinyl Chloride (PVC) outer sheath, typically red. Manufactured generally to Italian standards CEI 20-13 and CEI 20-16, the cable meets harmonised European standards HD 620, international standard IEC 60502-2, and flame propagation test EN 60332-1-2.

These robust power cables are suitable for installation indoors, outdoors, in cable ducts, or fixed directly to cable trays and masonry. They are also approved for direct burial underground without the need for additional mechanical protection, operating efficiently within a temperature range of -15°C to +90°C. For installation, careful consideration must be given to the minimum bending radius and maximum pulling tension to avoid damage to the aluminium core during installation.

### Key Features



**Voltage Rating**  
1.8/3 (3.6)kV  
6/11 (12)kV  
12/20 (24)kV  
18/30 (36)kV



**Minimum Bending Radius**  
12 x Overall Diameter



**Flame Retardancy**  
BS EN/IEC 60332-1-2



**Temperature Limits**  
Operating Temperature: -15°C to +90°C  
Maximum Short Circuit Temperature: +250°C

### Standards

- BS EN/IEC 60332-1-2
- CEI 20-13
- BS EN/IEC 60754-1
- CEI 0-21
- IEC 60885-3

### Construction

- **Conductor:** Class 2 Stranded Aluminium Conductor
- **Conductor Screen:** 6/10 kV and above: semi-conductive material
- **Insulation:** Hard Ethylene Propylene Rubber (HEPR)
- **Insulation Screen:** 6/10 kV and above: semi-conductive material
- **Metallic Screen:** Copper wires with equalising tape
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **Sheath Colour:** Red

### 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

## ARG7H1R Cable - 25mm<sup>2</sup> to 630mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Insulation Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
ARG7H1R3KV1X25	25	1	2.00	16.00	315
ARG7H1R3KV1X35	35	1	2.00	17.00	365
ARG7H1R12KV1X35	35	1	3.40	23.00	550
ARG7H1R24KV1X35	35	1	5.50	27.50	750
ARG7H1R36KV1X35	35	1	8.00	33.00	1050
ARG7H1R3KV1X50	50	1	2.00	18.50	410
ARG7H1R12KV1X50	50	1	3.40	24.50	600
ARG7H1R24KV1X50	50	1	5.50	29.00	825
ARG7H1R36KV1X50	50	1	8.00	34.00	1150
ARG7H1R3KV1X70	70	1	2.00	20.50	490
ARG7H1R12KV1X70	70	1	3.40	26.50	700
ARG7H1R24KV1X70	70	1	5.50	30.50	950
ARG7H1R36KV1X70	70	1	8.00	36.00	1550
ARG7H1R3KV1X95	95	1	2.00	22.00	600
ARG7H1R12KV1X95	95	1	3.40	28.00	835
ARG7H1R24KV1X95	95	1	5.50	33.00	1080
ARG7H1R36KV1X95	95	1	8.00	38.00	1300
ARG7H1R3KV1X120	120	1	2.00	24.50	700
ARG7H1R12KV1X120	120	1	3.40	29.50	950
ARG7H1R24KV1X120	120	1	5.50	34.50	1250
ARG7H1R36KV1X120	120	1	8.00	40.00	1680
ARG7H1R3KV1X150	150	1	2.00	26.00	795
ARG7H1R12KV1X150	150	1	3.40	31.00	1080
ARG7H1R24KV1X150	150	1	5.50	36.00	1345
ARG7H1R36KV1X150	150	1	8.00	41.00	1790
ARG7H1R3KV1X185	185	1	2.00	27.50	1235
ARG7H1R12KV1X185	185	1	3.40	33.00	1235
ARG7H1R24KV1X185	185	1	5.50	38.00	1550
ARG7H1R36KV1X185	185	1	8.00	43.00	2010
ARG7H1R3KV1X240	240	1	2.00	30.00	1485
ARG7H1R12KV1X240	240	1	3.40	35.50	1485
ARG7H1R24KV1X240	240	1	5.50	40.50	1840
ARG7H1R36KV1X240	240	1	8.00	45.00	2300
ARG7H1R3KV1X300	300	1	2.00	32.50	1720
ARG7H1R12KV1X300	300	1	3.40	38.50	1720
ARG7H1R24KV1X300	300	1	5.50	43.00	2110
ARG7H1R36KV1X300	300	1	8.00	47.00	2575
ARG7H1R3KV1X400	400	1	2.00	35.50	2250

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Insulation Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
ARG7H1R12KV1X400	400	1	3.40	41.00	2250
ARG7H1R24KV1X400	400	1	5.50	45.50	2660
ARG7H1R36KV1X400	400	1	8.00	50.50	3150
ARG7H1R3KV1X500	500	1	2.00	40.00	2600
ARG7H1R12KV1X500	500	1	3.40	45.00	2600
ARG7H1R24KV1X500	500	1	5.50	50.00	3185
ARG7H1R36KV1X500	500	1	8.00	53.00	3550
ARG7H1R3KV1X630	630	1	2.00	44.00	3150
ARG7H1R12KV1X630	630	1	3.40	48.00	3150
ARG7H1R24KV1X630	630	1	5.50	54.00	3800
ARG7H1R36KV1X630	630	1	8.00	60.00	4200

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