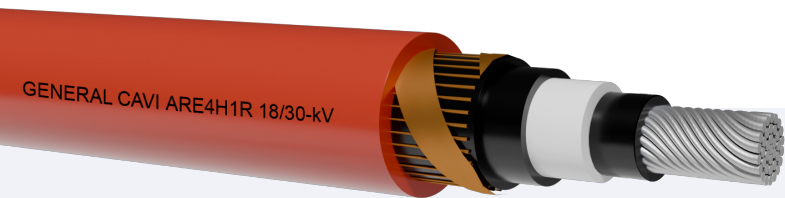


ARE4H1R 18/30 kV

Model Product: - 20151203



Cables with aluminum conductor for connections between substations and large users

- Aluminium rigid compact conductor, class 2.
- Inner semi-conducting layer
- XLPE Crosslinked polyethylene insulation(no dry cool).
- Outer semi-conducting layer special high module hepr for 1.8 / 3 kV only on request
- Red copper wire shield.
- PVC sheath in RZ/ST2 quality

STANDARDS

CEI 20-13, HD 620

COMMON FEATURES

Suitable for the transport of energy between the substations and large users. Laying underground in accordance with Art. 4.3.11 of IEC 11-17. Storage is recommended where high risk of theft.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12D
Maximum pulling stress: 50 N/mm²

PACKING

Drums to agree.

Nominal voltage U0: 18 kV

Nominal voltage U: 30 kV

Test voltage: 63 kV

Maximum voltage Um: 36 kV

Maximum operating temperature: +90°C

Maximum short circuit temperature: +250°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: White

SHEATH COLOUR

Red

NOTE

The cable meets the requirements according to HD 620 for insulation, for all other characteristics compared to CEI 20-13
The cable can be supplied in the visible pole helical RE4H1RX

ARE4H1R 18/30 kV

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ARE4H1R 18/30kV

Conductor Number (N°)	Nominal Section (mmq)	Approx cond. diameter (mm)	Approx insulation diameter (mm)	Approx external diameter (mm)	Approx cable weight (kg/km)	Minimum radius bending (mm)				
Single core										
1x	50	8.2	24.45	33	880	396				
1x	70	9.7	26.05	35	1020	420				
1x	95	11.4	27.75	36	1155	432				
1x	120	12.9	29.50	38	1320	456				
1x	150	14.0	30.80	40	1450	480				
1x	185	15.8	32.65	42	1620	508				
1x	240	18.2	34.80	45	1860	540				
1x	300	20.8	37.10	48	2100	576				
1x	400	23.8	40.00	51	2645	612				
1x	500	26.7	42.90	54	2978	648				
1x	630	30.5	46.50	58	3549	696				
Cond.xSec (N°x mmq)	Electric Resistace 20°C (Ohm/km)	Capacities 50 Hz (microF/km)	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation (Ohm/km)	Flat (Ohm/km)	Trefoil formation (Ohm/km)	Flat (Ohm/km)	Trefoil formation in air (A)	Flat in air (A)	Trefoil formation in ground (A)	Flat in ground (A)
Single core										
1x50	0.641	0.14	0.832	0.832	0.15	0.20	185	222	152	157
1x70	0.433	0.16	0.580	0.580	0.14	0.20	230	278	186	192
1x95	0.320	0.17	0.416	0.416	0.13	0.19	280	338	221	229
1x120	0.253	0.19	0.333	0.333	0.13	0.18	323	391	252	260
1x150	0.206	0.20	0.270	0.270	0.12	0.18	368	440	281	288
1x185	0.164	0.22	0.218	0.218	0.12	0.18	424	504	317	324
1x240	0.125	0.24	0.168	0.165	0.11	0.17	502	593	367	373
1x300	0.100	0.26	0.136	0.132	0.11	0.17	577	677	414	419
1x400	0.0778	0.29	0.109	0.105	0.11	0.16	673	769	470	466
1x500	0.0605	0.32	0.0890	0.0828	0.10	0.16	781	890	550	540
1x630	0.0469	0.36	0.0739	0.0662	0.099	0.16	909	1030	710	700