

## RH5ZI-OL 18/30KV

### Aluminium medium voltage cables 30kV



Medium voltage cables for rated voltages from 6 kV ( $U_m = 7,2$  kV) up to 30 kV ( $U_m = 36$  kV) used for industrial installations or for a distribution network. Designed for fixed installations indoors, outdoors or in buried installations. Conductor shape round, class 2 = stranded; red outer sheath  
Outer sheath materials: ALCUDIA C-240-UV (BAG) and GRANIC 535 (BIGBAG)

### STANDARDS AND CERTIFICATIONS

#### RoHS



EN 60228  
DND 02100

IEC 60502-2

EN 60754-1

Conductors of insulated cables  
Insulated cables for overhead and underground medium voltage networks up to 30 kV  
Cables for rated voltages from 6 kV ( $U_m = 7,2$  kV) up to 30 kV ( $U_m = 36$  kV)  
Test on gases evolved during combustion of materials from cables. Halogen acid gas content.

### CABLE DESIGN

Conductor material	Aluminium
Core insulation material	XLPE
Radial water blocking cable	Yes
Material outer sheath	Other
Cable shape	Round

### ELECTRICAL & THERMAL PARAMETERS

Nominal voltage $U_0$ [V]	18,000
Nominal voltage $U$ [V]	30,000
Test voltage [kV]	63
Rated voltage $U_0/U$ ( $U_m$ )	18/30 (36) kV
Max. conductor temperature [ $^{\circ}\text{C}$ ]	90
Max. conductor temperature at short circuit [ $^{\circ}\text{C}$ ]	250
Laying temperature (min) [ $^{\circ}\text{C}$ ]	-20
Laying temperature (max) [ $^{\circ}\text{C}$ ]	50

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## CHEMICAL PROPERTIES

Resistant to UV	Yes
UV resistant	Yes
Silicon free	Yes
Lead free	Yes

## CHARACTERISTICS

Outdoor installation	Yes
Suitable for concrete installation	No
Underground installation	Yes
Suitable as installation cable	Yes
Bending radius (rule)	During installing: 15 x D single-core cables

## SUSTAINABILITY COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritize sustainability and environmental protection in our daily operations, collaborating with local communities to ensure workplace safety and safeguard the areas we operate in.

Sustainability and environmental responsibility is evident also in our **packaging** solutions across the CEE region. We use fully recyclable drum cover foils to minimize environmental impact. Our packaging for rings is made from 30% recycled materials, supporting a circular economy. Additionally, our boxes are made from recyclable, environment-friendly cardboard, promoting eco-conscious choices. By choosing Prysmian, you are not only selecting high-quality products but also contributing to a greener future.

Check for more details about our sustainability commitment here: [Sustainability report and responsibility](#).



## CABLE PROPERTIES

Basic construction	SAP code	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Bending radius, during laying (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (1sec) [kA]	Short circuit current screen (1sec) [kA]
1x240RM	20217917	6.7	32.5	40.3	1,666	605	0.125	23.1	4
1x240RM	20046882	6.7	32.5	41.4	1,717	621	0.125	23.1	4
1x240RM	20303275	6.7	32.5	41.4	1,771	621	0.125	23.1	4.1
1x300RM	17100103008	7.25	36.3	43.6	1,960	654	0.1	28.8	4.3
1x400RM	20303276	6.7	38.5	47.3	2,355	710	0.0778	38.3	4.6
1x630RM	20262783	7.25	46.2	53.4	3,234	801	0.0469	60.2	5.3

## CURRENT CARRYING CAPACITY

Cross-section (mm²)	Direct in ground trefoil (A)	Direct in ground flat spaced (A)	Air trefoil (A)	Air flat spaced (A)
70	186	192	230	278
95	221	229	280	338
120	252	260	324	391
150	281	288	368	440
185	317	324	424	504
240	367	373	502	593
300	414	419	577	677
400	470	466	673	769
500	535	524	781	884
630	608	578	903	996
800	681	630	1029	1105
1000	753	681	1165	1219
1200	885	790	1274	1305

Ground temperature: 20°C; Air temperature: 30°C  
Depth of laying: 0,8 m; Soil resistivity, moist: 1,5 K.m/W  
Screen bonded at both ends