

# Taking flexibility to a new level.

Our RV-K installation cables are bending the law of physics.





*A complex cable made  
easy to work with.*

# Made locally.

We've been producing cables in Romania since 1973. Today we have about 1200 skilled co-workers developing state-of-the-art cables in our two advanced manufacturing plants in Slatina, located in the southern region of Oltenia. We can offer a complete range of energy cables covering everything from low voltage building and installation cables to cables with medium, high and extra-high voltage. In Slatina we also run the largest optical fibre cable plant in Central and Eastern Europe, providing the world with a vast range of telecommunication cables, both fibre and copper.

At our two plants we develop tailor-made solutions to meet your specific needs as well as common challenges of today and tomorrow. And should that not be enough, we are part of the largest cable manufacturer in the world, Prysmian Group. That includes 50 countries, 112 plants, 25 R&D centres and about 30,000 skilled professionals doing nothing but developing and producing cable solutions that will solve your current and future needs.



# Our RV-K installation cables are bending the law of physics.

With a highly pliable conductor formation and a smaller diameter than equivalent PVC cables, our RV-K XLPE insulated cables are extremely easy to work with, even in the smallest spaces. And as if that wasn't flexible enough, the cables can be installed in a tube or buried directly, be totally immersed in water as well as withstand 250 °C in short-circuit situations. That's what we call at full stretch.

## RV-K INSTALLATION CABLE

### Application

XLPE insulated and PVC sheathed power cables are designed to be used and easily handled for electrical energy in urban grids, building installations. Can be buried or installed in a tube, as well as outdoor without additional protection. Is UV resistant, can withstand damp conditions including total immersion in water.

## MAIN FEATURES

- ✓ Supreme flexibility makes the cable easy to handle and install
- ✓ Smaller diameter allows for narrower bending radius
- ✓ Withstands 250 °C short-circuit situations
- ✓ Can be totally immersed in water
- ✓ Install in tube or bury it directly

RV-K installation cable					
Number and crossection n $\times$ mm <sup>2</sup>	Nominal thickness of insulation mm	Nominal thickness of outer sheath mm	Approximate outer diameter of cables mm	Approximate weight of cables Kg/km	Maximum resistance of conductor at 20 °C $\Omega$ /km
1x25	0,9	1,4	11	307	0,78
1x35	0,9	1,4	12	415	0,554
1x50	1	1,4	14	570	0,386
1x70	1,1	1,4	16	765	0,272
1x95	1,1	1,5	19	1015	0,206
1x120	1,2	1,5	21	1274	0,161
1x150	1,4	1,6	23	1550	0,129
1x185	1,6	1,6	26	1851	0,106
1x240	1,7	1,7	29	2360	0,0801
1x300	1,8	1,8	32	2945	0,0641



RV-K installation cable	
<b>Global data</b>	
Brand	RV-K
Standard	IEC 60502-1
<b>Construction parameters</b>	
Conductor	Flexible copper conductor class 5, acc. to IEC 60228
Insulation	Crosslinked polyethylene (XLPE), type DIX3 developed for increased thermal stress resistance.
Core identification	1 core: black
Core arrangement	Single core
Outer sheath	PVC type ST2
Outer sheath color	Black
<b>Thermal parameters</b>	
Max. permissible temp. at conductor	90 °C
Max. Short circuit temperature	250 °C
Ambient temp. in flex. application (min-max)	-5 °C ; 40 °C
<b>Electrical parameters</b>	
Rated voltage	0.6/1 kV (600/1000V)
Max. permissible operating voltage AC	1.2 kV
AC test voltage	3.5 kV

RV-K installation cable	
<b>Mechanical characteristics</b>	
Resistance to impact	Medium
Bending radius	5 x D, fixed installation
Cable flexibility	High flexibility
Cable handling	Very good (due to its high flexibility properties)
Max. tensile load on the conductor	50 N/mm <sup>2</sup>
<b>Usage characteristics</b>	
Lead free	Yes
Chemical resistance	Resistant to acids and base alkaline substances
Water proof	Yes
Oil resistance	Good oil resistance
UV resistance	Yes
Max. conductor temp in service	+90 °C
Reaction to fire	IEC 60332-1
Flame retardant	IEC 60332-1-2
RoHS/REACH compliant	Yes
Weather resistance	UV resistance
Standard length cable packing	1000 m on drums. Other delivery lengths are available on request.

**Please check our homepage: [www.prysmiangroup.ro](http://www.prysmiangroup.ro) for more details.**



## Linking the future

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