



The XZ1 (S) RockTec cable arises from the need to bury cables directly in the ground, allowing for the avoidance of tubes and specific materials in the process. The inherent characteristics of low voltage cables mean they can only be buried if the terrain is prepared to avoid damage, or if they are installed within a tube. Both methods can become very costly, both in materials and, above all, in installation time.

The use of the XZ1 (S) RockTec cable facilitates the optimization of time and resources:

- The installation process is reduced to digging the trench, installing the cable, and burying it using the same excavated material.
- There is no need to install or guide tubes, manholes, etc.
- Fine aggregates are not required for burial.
- Trenches can be smaller since no construction element needs to be introduced into them.

The RockTec cable has impact protection of **48 Joules** without compromising the cable's proper functioning, so it will not suffer significant damage from the impacts associated with burial. Additionally, this cable is halogen-free, has anti-rodent protection, and exhibits excellent performance in water, complying with category AD7.

Although it is specially designed for renewable energy installations, it is also suitable for connections, underground distribution networks, and indoor or receiving installations.

**TECHNICAL CHARACTERISTICS**

Conductor	Aluminium, class 2, based on UNE-EN 60228 and IEC 60228.
Insulation	Cross-linked Polyethylene (XLPE), type DIX 3 according UNE HD 603-1.
Outer sheath	Low Smoke Zero Halogen (LSZH) polyolefin DMO1 type according HD 603-1.
Nominal Voltage	0,6/1 kV C.A.
Voltage Test	3.500 V C.A. (5 minutes)
Maximum conductor temperatures	Normal operation 90°C Short circuit (5sec) 250°C

## OTRAS CARACTERÍSTICAS

- Non-flame propagation according to EN 60332-1-2, IEC 60332-1-2.
- Low halogen content according to EN 60754-2, EN 60754-1.
- Low corrosive gas emission according to EN 60754-2, IEC 60754-2.
- Low smoke emission according to EN 61034-2, IEC 61034-2.
- **Fire reaction (CPR) Eca.**
- High cold resistance -40°C (fixed and protected installations)
- Impact resistance of **48J (UNE 211620)**.
- Water resistance AD7 (ITX7) according IEC 60529.
- Bending radius of 15 x OD (during installation).
- High abrasion resistance.
- Rodent-resistant additive.
- Suitable for direct burial.



## PRODUCT RANGE

Section	Electric resistance 20°C (Ohm/km)	Insulation thickness (mm)	Outer sheath thickness (mm)	Maximum overall diameter (mm)	Weight (kg/m)
1x35	0,868	0,9	1,3	11,9	0,170
1x50	0,641	1	1,3	12,8	0,210
1x70	0,443	1,1	1,4	14,7	0,285
1x95	0,320	1,1	1,4	16,4	0,367
1x120	0,253	1,2	1,4	17,9	0,453
1x150	0,206	1,4	1,4	19,8	0,544
1x185	0,164	1,6	1,4	21,8	0,665
1x240	0,125	1,7	1,5	24,8	0,866
1x300	0,100	1,8	1,8	27,4	1,083
1x400	0,0778	2	1,9	31,5	1,385

*\*The values of the outer diameters are approximate, always within production tolerance. For more information, please contact us.*

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