



Flexible and mechanically robust single-core connection cables

Reinforced outer sheath gives enhanced protection against mechanical stress; Wide temperature range for applications in harsh climatic environments; Reduction of flame propagation and of toxic combustion gases in the event of fire; For outdoor use, and if the general installation guidelines are followed, this is also suitable for direct burial; Flexible and fine-wired conductor design enables easy on-site installation

- Voltage rating 1.8/3 kV
- Suitable for direct burial
- Halogen-free and flame-retardant



Product description

Application range

- Required rated voltage 1.8/3 kV
- In the field of renewable energy and conventional power generation
- Photovoltaic plants and solar parks
- Drip-loop installation in wind turbines
- As connection between the converter and the transformer substation

Benefits

- Reinforced outer sheath gives enhanced protection against mechanical stress
- Wide temperature range for applications in harsh climatic environments

- Reduction of flame propagation and of toxic combustion gases in the event of fire
- For outdoor use, and if the general installation guidelines are followed, this is also suitable for direct burial
- Flexible and fine-wired conductor design enables easy on-site installation

Product Make-up

- Fine-wire, tinned-copper conductor
- Core insulation made of cross-linked polyolefin
- Outer sheath made of cross-linked copolymer
- Core insulation and outer sheath are extruded together
- Outer sheath colour: black

Product features

- Weather/UV-resistant acc. to HD 605/A1
- Ozone-resistant according to EN 50396
- Halogen-free and flame-retardant
- Suitable for direct burial according to UL 1277
- Torsion-tested for wind turbines

Technical Data

Core identification code	Colour: black (RAL 9005)
Fire test	Flame-retardant according IEC 60332-1-2
Classification	ETIM 5.0 Class-ID: EC000057
	ETIM 5.0 Class-Description: Low voltage power cable
Conductor stranding	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius	Occasional flexing: 15 x outer diameter Fixed installation: 5 x outer diameter
Nominal voltage	U ₀ /U: 1.8/3 kV
Test voltage	AC 6500 V
Temperature range	Flexing: -40°C to +90°C Fixed installation: -40°C to +90°C