



## Chemically and mechanically robust cables for harsh environmental conditions - 0.6/1 kV

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media; Reduced flame spreading increase the protection against damage to persons and property in the event of a fire; The copper braiding serves as an electromagnetic screen and can also be used as armouring (Braid Armour); Can be used in many applications from different industries, as it has remarkable mechanical, thermal and chemical properties

- Oil and mud-resistant according to IEC 61892-4, Annex D
- Highly flame retardant
- UL/cUL approved for North America



## Product description

### Application range

- Onshore and offshore applications
- For electrical connection of drilling units, pumping stations, compressors or generators in harsh environmental conditions

### Benefits

- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Reduced flame spreading increase the protection against damage to persons and property in the event of a

fire

- The copper braiding serves as an electromagnetic screen and can also be used as armouring (Braid Armour)
- Can be used in many applications from different industries, as it has remarkable mechanical, thermal and chemical properties

## Product Make-up

- Fine-wire, tinned-copper conductor
- Core insulation: polyolefin compound
- Cores twisted in layers
- Inner sheath: halogen-free compound
- Tinned copper screen braiding
- Outer sheath made of robust special polymer, colour black

## Norm references / Approvals

- Single-core versions:  
USA: UL AWM Style 10587  
Canada: cUL AWM II A/B
- Multi-core versions:  
USA: UL AWM Style 20234  
Canada: cUL AWM II A/B

## Product features

- Oil-resistant acc. to NEK TS 606:2009  
Oil and mud-resistant according to IEC 61892-4, Annex D
- Fire behaviour:
  - Halogen-free (VDE 0472-815)
  - Flame-retardant (IEC 60332-1-2)
  - No flame propagation (IEC 60332-3-22 Cat. A)
- UV-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396
- Salt water-resistant according to UL 1309

## Technical Data

Core identification code

Colours according to VDE 0293-308, refer to Appendix T9

Fire test

From 6 cores: black with white numbers  
Flame-retardant acc. to IEC 60332-1-2,  
UL VW-1, Cable Flame Test, CSA FT 1  
No flame-propagation according to IEC 60332-3-22  
category A

Classification

ETIM 5.0 Class-ID: EC000057

ETIM 5.0 Class-Description: Low voltage power cable

Conductor stranding

Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5

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Minimum bending radius	from 0.5 mm <sup>2</sup> Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage	IEC U <sub>0</sub> /U: 600/1000 V Up to 1.0mm <sup>2</sup> 300/500 V
Test voltage	4000 V
Temperature range	Occasional flexing: -40°C to +90°C According to UL/AWM: -40°C to +80°C Fixed installation: -50°C to +90°C according to UL/AWM: -50°C to +80°C