

Top Cable
Driving your energy



**POWERFLEX®
RV-K**

Flexible power
cable for low
voltage industrial
installations

Distributed by TROPAC



**INDUSTRIAL
CABLES**
IEC 60502-1
0,6 /1kV



XLPE
90 °C



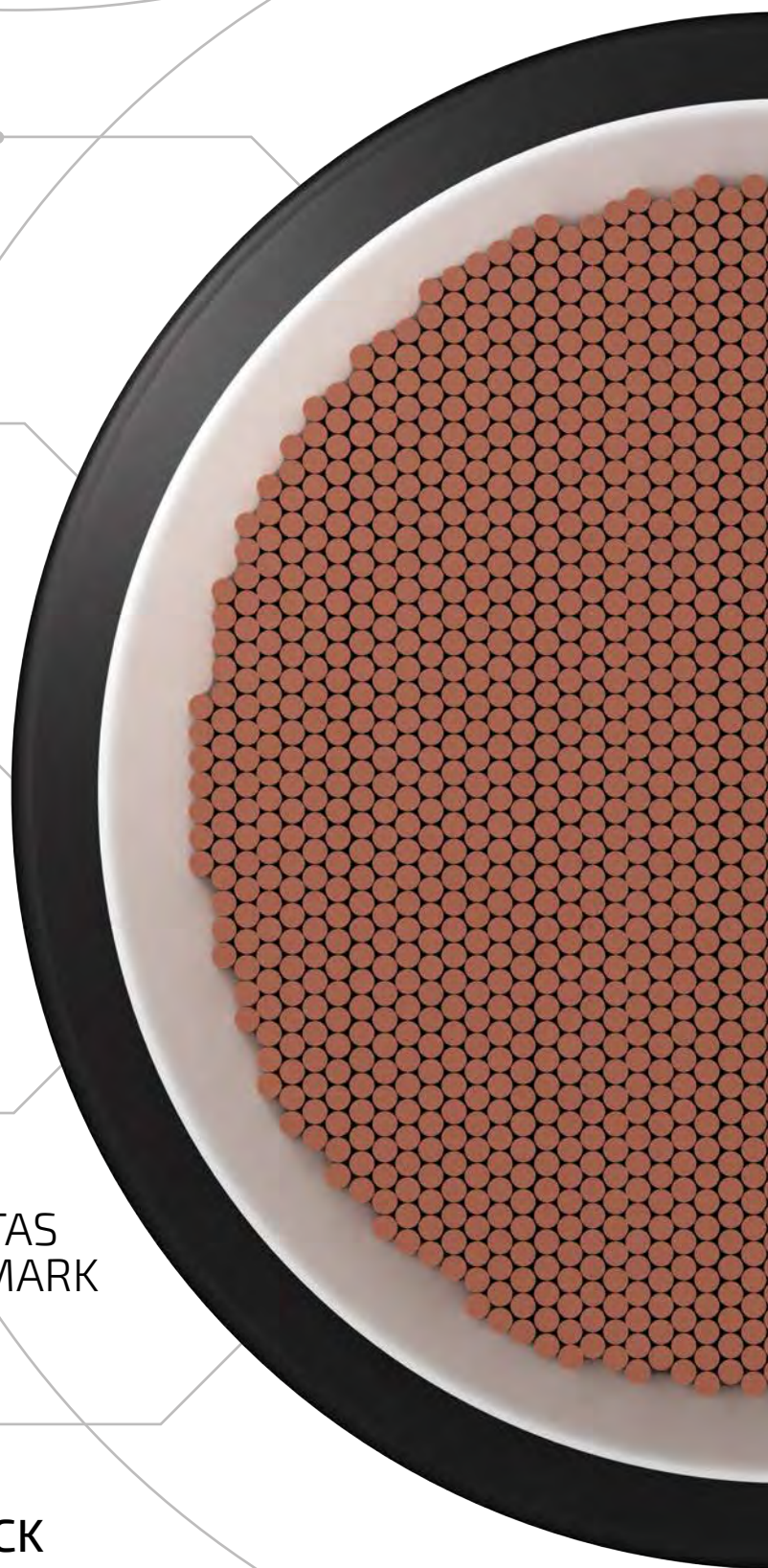
FLEXIBLE
CLASS 5
IEC 60228



CERTIFICATES
AENOR/BUREAU VERITAS
/KEMA-KEUR/CB/CE MARK



**AVAILABLE
FROM STOCK**



Top Cable

Powerflex RV-K

The flexible power cable for
low voltage industrial installations

Engineered
to meet
Australlian
Industry
Requirements

Cross-linked Polyethylene (XLPE) insulation material mean that Powerflex RV-K is engineered to meet the most demanding industry requirements: flexibility, dry and wet electrical performance, chemical resistance, maximum and minimum temperature resistance, and extended lifespan of the cable installation.



POWERFLEX[®] RV-K

Industrial flexible cable for power transmission.

ACCORDING TO: IEC 60502-1 / UNE 21123-2



E_{ca}



APPLICATION

Powerflex[®] RV-K cable is suitable for all types of low voltage industrial-type connections, in urban grids, building installations, etc.

Its high flexibility makes the installation process substantially easier and, as a result, is particularly suitable for use in difficult layouts. It can be buried or installed in a tube as well as outdoors without requiring additional protection.

This cable can withstand damp conditions including total submersion in water (AD8).

CONSTRUCTION

Conductor

Electrolytic annealed copper, class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation

Cross-linked polyethylene, type DIX-3 according to HD 603-1 and type XLPE according to IEC 60502-1.

The standard identification of insulated conductors according to HD 308 is the following:

1 x	Natural
2 x	Blue + Brown
3 G	Blue + Brown + Green/Yellow
3 x	Brown + Black + Grey
3 x + 1 x	Brown + Black + Grey + Blue (reduced cross-section)
4 G	Brown + Black + Grey + Green/Yellow
4 x	Brown + Black + Grey + Blue
5 G	Brown + Black + Grey + Blue + Green/Yellow
6 or more	Black numbered + Green/Yellow

Outer sheath

Flexible PVC, type DMV-18 according to HD 603-1 and type ST2 according to IEC 60502-1.

Black colour.

Other colors are available on request.

CHARACTERISTICS



Electrical performance

Low voltage: 0,6/1 kV.



Thermal performance

Maximum conductor temperature: 90°C.

Maximum short-circuit temperature: 250°C (max. 5 s).

Minimum service temperature: -40°C (fixed and protected installations).

Minimum installation and handling temperature: 0°C (on cable surface).



Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Reaction to fire CPR: E_{ca} according to EN 50575.

Reduced halogen emission. Chlorine < 15%.



Mechanical performance

Minimum bending radius during installation: 5x cable diameter (diameter cable ≤ 50 mm).

Minimum bending radius during installation: 6x cable diameter (diameter cable > 50 mm).

Impact resistance: AG2 Medium severity.



Environmental performance

Chemical & Oil resistance: Good.

UV Resistant according to UNE 211605.

Water resistance: AD8 Submersion.



Installation conditions

Open Air.

Buried.

In conduit.

In tray.

STANDARDS / COMPLIANCE



According to

IEC 60502-1 / UNE 21123-2



Standards and approvals

AENOR / BUREAU VERITAS / RETIE / KEMA-KEUR / RoHS / CE



CPR (Construction Products Regulation)

E_{ca}





SERVICE TEMPERATURE: -40°C / 90°C

Powerflex® is designed to operate reliably even at -40°C in fixed installations. The XLPE insulation raises the maximum conductor temperature to 90°C.



UV RESISTANCE

In our compromise to make Powerflex® suitable for all type of terrains and outdoor environments, we have tested our cables to withstand UV rays according to EN 50618



ELECTRICAL PERFORMANCE

The insulation has been tested to ensure electrical performance for more than 30 years at 90°C. This, coupled with the high-performance mechanical properties of the outer sheath, is the best ally for a long-term investment.



IMMERSIBILITY

During the rainy season, most cables in BESS installations can be submerged in water, reducing their service life. Powerflex® has been tested to withstand wet conditions, including total immersion in water (AD8)



OVERLOAD CAPACITY

Powerflex® cables withstand short-circuit temperatures up to 250°C, much higher than PVC insulated cables (only 160°C), at identical cross-section. Overloading any cable reduces its lifecycle.



FIRE PERFORMANCE

Powerflex® are flame non-propagation cables, according to IEC 60332-1 and UNE-EN 60332-1 combustion requirements.



FLEXIBILITY

The use of Class 5 and class 6 flexible copper conductors and flexible compounds makes Powerflex® cables highly flexible.



COST-EFFECTIVE

Powerflex® not only exceeds the performance required by the market, it is also more cost-effective than its competitors, as Powerflex® requires less time and labour to install, and its long service life reduces replacement and maintenance costs.



Quality laboratories and international certificates



100% cable traceability down to the copper.



100% cable tested drums.



Top-tier in-house and 3rd party testing labs for FAT and SAT tests.



Highest CPR rating in our manufactured cables.



B2ca covers (and surpass) Cca CPR fire performance



DoP are compulsory for cable traceability



Distributed by TROPAC

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