

# POWERFLEX® RV-K

Industrial flexible cable for power transmission.

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



# Eca

## 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.


## 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: Eca 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)**  
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