



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.

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}

