POWERFLEX® PLUS
YMvKf 0,6/1 kV

The universal cable for power transmission with improved fire proof properties.

ACCORDING TO: IEC 60502-1

C_{ca}

APPLICATION

Powerflex® Plus YMvKf cable is suitable for all types of industrial low voltage connections, urban grids, building installations, etc. This cable is fire retardant and is recommended for use in public places and hazardous industries. Its flexibility makes installation substantially easier, making it highly suitable for difficult layouts. This cable can also be used in buried installations or in tubes or outdoors without requiring additional protection.
This cable withstands damp conditions and even total submersion in water (AD7).

CONSTRUCTION

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

Insulation
Cross-linked polyethylene type XLPE according to IEC 60502-1.
The standard identification of insulated conductors, according to HD 308 is the following:
1 x   Black
2 x   Blue + Brown
3 x   Blue + Brown + Grey
4 G   Brown + Black + Grey + Green/Yellow
5 G   Brown + Black + Grey + Blue + Green/Yellow

Outer sheath
Flexible PVC type ST2 according to IEC 60502-1.
Grey colour.

CHARACTERISTICS

Electrical performance
Low voltage 0,6/1kV.

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).

Fire performance
Flame non-propagation according to EN 60332-1 / IEC 60332-1.
Fire non-propagation according to EN 60332-3-24 / IEC 60332-3-24 and EN 50399.
Reaction to fire CPR: C_{ca}-s2,d2,a3 according to EN 50575.
Reduced halogen emission. Chlorine < 15%.

Mechanical performance
Minimum bending radius during installation: 5x cable diameter.
Minimum bending radius, fixed: 3x cable diameter.
Impact resistance: AG2 Medium severity.

Environmental performance
Chemical & Oil resistance: Acceptable.
UV Resistant according to UNE 211605.
Water resistance AD7 immersion.

STANDARDS / COMPLIANCE

According to
IEC 60502-1

Standards and approvals
AENOR / BUREAU VERITAS / KEMA-KEUR /RoHS / CE

CPR (Construction Products Regulation)
C_{ca}-s2,d2,a3