

**Top Cable**

Driving your energy



# 2026 CABLE CATALOGUE





# Top Cable, a European manufacturer of industrial cables.

**Top Cable is one of the main European electric cables manufacturers. We manufacture a wide spectrum of cables ranging from control cables for specialized applications to larger power cables for medium voltage applications in various industries.**

We supply cables for worldwide construction projects, OEM's, renewable energies, and more. We are proud to supply high-quality, cost-effective cables with good after-sale services. Customer's satisfaction is Top Cable's prime goal.

All Top Cable's manufacturing plants are based around Barcelona, Spain. The organization is family-owned company manufacturing electric cables on an international scale, with offices and warehouses located around the globe. Therefore, we guarantee customer proximity on a global level.

Customers appreciate Top Cable as a technically leading manufacturer of cables of outstanding quality, meeting the most stringent international specifications and certificates. Large cable stocks are available on the company's main logistics center in Barcelona to ensure short lead times and shipment flexibility. Top Cable also manages several cable stocks across their worldwide offices and warehouses to avoid out-of-stock situations in the supply chain.

As a familiar group company, Top Cable believes in the compatibility of economic, social, and ecological aspects, being committed to acting responsibly along our entire value chain.



# Top Cable





**Large cable stocks are available on Top Cable's main logistics center in Barcelona to ensure short lead times and shipment flexibility.**

**Top Cable also manages several cable stocks across their worldwide offices and warehouses to avoid out-of-stock situations in the supply chain.**



# First-class facilities you can visit and see in Barcelona





# 10 reasons why Top Cable

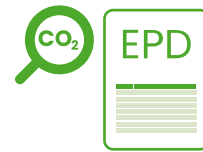
is already one of the most sustainable cable manufacturers in Europe



At Top Cable we use 100% Green Energy Electricity across all our factories.



At Top Cable we operate with photovoltaic self-consumption at all our production sites.



Our EPDs (Environmental Product Declarations) analyse the product's life cycle and CO2 emissions.



At Top Cable we are using cardboard boxes and phasing out the use of plastic packaging.



At Top Cable we exclusively source wood from sustainable forest for our cable drums and pallets.



At Top Cable we deeply invest in reverse logistics to collect empty cable drums from International sales.



At Top Cable we push into green and intermodal logistics to lower our CO2 emissions in transport.



At Top Cable we adhere to ISO 14.001 systems and are REACH & ROHS compliant.



At Top Cable we have electric chargers in all our industrial plants, especially at our headquarters in Rubí.



#movinggreen

At Top Cable, it is our goal to reduce CO2 emissions across our entire value chain and become the lowest emitting cable manufacturer in Scope 1 and 2 by 2030.




[topcable.com/movinggreen](https://topcable.com/movinggreen)


## Test Laboratories and Quality Management


We are experts in cables and therefore guarantee **the electrical and environmental performance** you need in your industrial installations. All cables manufactured by Top Cable are subject to strict quality controls and undergo many rigorous testing processes to verify:

- **Cable Quality:** evaluating the materials and construction.
- **Cable Functionality:** testing their electrical and operational performance.
- **Cable Conformity:** ensuring cables meet specific Standards.



 Electrical cables are subject to **aging simulation** to predict how cables are likely to perform over time.

 As the **first company to achieve Cca classification**, Top Cable has established itself as a benchmark for compliance with CPR B2ca and Cca fire cable regulations.

 **100% of our electrical cable drums are tested** throughout the entire development and production process.

Our cables are certified by the main industry international standards:





We use various equipment and specialized personnel to conduct rigorous **MV quality tests** to ensure our Medium Voltage cables meet your most demanding requirements.

# POWERFLEX® PLUS YMvKf 0,6/1 kV

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

ACCORDING TO: IEC 60502-1



FR / EN



C<sub>ca</sub>

## 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<sub>ca</sub>-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<sub>ca</sub>-s2,d2,a3





TOP CABLE POWERFLEX® RV-K

## 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<sub>ca</sub> 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<sub>ca</sub>





**B2<sub>ca</sub> C<sub>ca</sub>**

## APPLICATION

Toxfree® ZH RZ1-K (AS) is a LSHF safety cable. In the event of fire, it does not emit toxic gases, nor does it give off corrosive gases, avoiding any possible damage to people or electronic equipment. For these reasons it is highly recommended for use in public places such as: hospitals, schools, museums, airports, bus terminals, shopping centers, offices, laboratories, etc.

- Industrial use.
- Public places.

## 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 and type DIX-3 according to HD 603.

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)
3 x + 1G	Brown + Black + Grey + Green/Yellow (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

Low smoke halogen free polyolefin, type ST8 according to IEC 60502-1 and type DMZ-E according to UNE 21123-4.  
Green 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.
- Fire performance**  
Flame non-propagation according to IEC 60332-1 / EN 60332-1.  
Fire non-propagation according to EN 60332-3 / IEC 60332-3 and EN 50399.  
Reaction to fire CPR: B2<sub>ca</sub>-s1a,d1, a1 or C<sub>ca</sub>-s1a,d1,a1 according to EN 50575 (see cross-section).  
Halogen free according to EN 60754-1 / IEC 60754-1.  
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.  
Low smoke emission according to EN 61034 / IEC 61034:  
Light transmittance > 80%.
- Mechanical performance**  
Minimum bending radius during installation: 5x cable diameter.  
Impact resistance: AG2 Medium severity.  
Test impact at -25°C according HD 604-5D.
- Environmental performance**  
Chemical & Oil resistance: Acceptable.  
UV Resistant according to EN 50618.  
Water resistance: AD8 Submersion.
- Installation conditions**  
Open Air.  
Buried.  
In conduit.

## STANDARDS / COMPLIANCE

-  According to IEC 60502-1 / UNE 21123-4
-  Standards and approvals AENOR / SEC / KEMA-KEUR / RoHS / CE
-  CPR (Construction Products Regulation) B2<sub>ca</sub>-s1a,d1,a1 (according to cross-section) or C<sub>ca</sub>-s1a,d1,a1 (according to cross-section)



**B2** ✓  
ca

# TOXFREE® RZ1-K (AS): redefining flexibility and fire performance

TOXFREE® RZ1-K (AS) flex is the only cable that combines **B2ca LSZH fire protection** with extra flexibility for the most critical environments: data centres, hospitals & healthcare facilities, public buildings, and airports & transport hubs.

**Extra-flexible XLPE-insulated conductors** allow tight bend radius and high density routing through cable trays, raised floors, and containment systems without compromising the high performance flexible LSZH outer sheath — developed in our in-house Technology Center — that underpins the B2ca classification.

TOP CABLE TOXFREE® RZ1-K (AS)



Proudly Made in EU

**B2** ✓  
ca

**C** ✓  
ca

**D** ✓  
ca



[topcable.com](https://topcable.com)





Halogen free (LSHF) power cable for public places.

ACCORDING TO: IEC 60502-1

BASED ON: VDE 0276-604



**B2<sub>ca</sub> C<sub>ca</sub>**



## APPLICATION

Toxfree® ZH N2XH Flex is a LSHF safety cable for fixed installations. In the event of fire, it does not emit toxic or corrosives gases, preventing any possible harm to people or electronic equipment. For these reasons this cable is highly recommended for use in public places such as hospitals, schools, museums, airports, bus terminals, shopping centers, offices, laboratories, etc.

## 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 and type 2X11 according to VDE 0276-604.

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

### Outer sheath

Low smoke halogen free polyolefin, type ST8 according to IEC 60502-1 and type HM4 according to VDE 0276-604.

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.  
Fire non-propagation according to EN 60332-3-24 / IEC 60332-3-24 and EN 50399.  
Reaction to fire CPR: B2<sub>ca</sub>-s1a, d1, a1 or C<sub>ca</sub>-s1a, d1, a1, according to EN 50575 (see cross-section).  
Halogen free according to EN 60754-1 / IEC 60754-1.  
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.  
Low smoke emission according to EN 61034 / IEC 61034:  
Light transmittance > 80%.

### Mechanical performance

Minimum bending radius: 5x cable diameter.  
Impact resistance: AG2 Medium severity.

### Environmental performance

Chemical & Oil resistance: acceptable.  
UV Resistant according to EN 50618.  
Water resistance: AD8 Submersion.

### Installation conditions

Open Air.  
Buried.  
In conduit.

## STANDARDS / COMPLIANCE



According to  
IEC 60502-1

Based on  
VDE 0276-604



Standards and approvals  
KEMA-KEUR // RoHS / CE



CPR (Construction Products Regulation)  
B2<sub>ca</sub>-s1a, d1, a1 (according to cross-section) or  
C<sub>ca</sub>-s1a,d1,a1 (according to cross-section)







**B2<sub>ca</sub>**

### APPLICATION

Toxfree® ES05Z1-K (AS)/H05Z1-K & H07Z1-K (AS) Type 2 is a LSHF safety cable. In the event of fire, it does not emit toxic gases, nor does it give off corrosive gases, avoiding any possible damage to people or electronic equipment.

For these reasons it is highly recommended for use in public places such as: hospitals, schools, museums, airports, bus terminals, shopping malls, offices, laboratories, etc.

### CONSTRUCTION

#### Conductor

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

#### Insulation

Polyolefin, halogen free and low smoke under fire conditions, type TIZ1 according to UNE 211002 and type TI7 according to EN 50363-7.

The standard identification of insulated conductors is the following:

Blue	RAL 5015
Brown	RAL 8003
Black	RAL 9005
Red	RAL 3000
Green/Yellow	RAL 6018/1021
Grey	RAL 7000
Dark Blue	RAL 5010
White	RAL 9010

Other colors are available on request.

### CHARACTERISTICS



#### Electrical performance

Low voltage: 300/500 V  
450/750 V

Rated Voltage: ES05Z1-K/H05Z1-K (up to 1 mm<sup>2</sup>): 300/500 V.  
H07Z1-K (from 1,5 mm<sup>2</sup> onwards): 450/750 V.



#### Thermal performance

Maximum conductor temperature: 70°C.  
Maximum short-circuit temperature: 160°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 / IEC 60332-3 and EN 50399.

Reaction to fire CPR: B2ca-s1a, d1, a1 (cable H07Z1-K from 1,5 mm<sup>2</sup> to 240 mm<sup>2</sup>) according to EN 50575.

Low smoke halogen free according to EN 60754-1 / IEC 60754-1.  
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.

Low smoke emission according to EN 61034 / IEC 61034:  
Light transmittance > 80%.



#### Mechanical performance

Minimum bending radius: 5x cable diameter.



#### Environmental performance

Chemical & Oil resistance: Acceptable.

### STANDARDS / COMPLIANCE



According to  
EN 50525-3-31  
Based on  
UNE 211002



Standards and approvals  
HAR / AENOR / BUREAU VERITAS / RoHS / SEC / CE



CPR (Construction Products Regulation)  
B2<sub>ca</sub>-s1a, d1, a1 (cable H07Z1-K from 1,5 mm<sup>2</sup> to 240 mm<sup>2</sup>)





**B2<sub>ca</sub>**

## APPLICATION

Toxfree® ZH RZ1 (AS) AI is an aluminium LSHF cable for fixed installations. These cables are specially recommended for installation in public places and in installations where safety is a priority.

## CONSTRUCTION

### Conductor

Aluminium class 2 according to EN 60228 and IEC 60228.

### Insulation

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

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

1 x	Natural
3 x	Brown + Black + Grey
4 x	Brown + Black + Grey + Blue
5 G	Brown + Black + Grey + Blue + Green/Yellow

### Outer sheath

Low smoke halogen free polyolefin.  
Green colour. Other outer sheath colours 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.

### 🔥 Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.  
Fire non-propagation according to EN 60332-3 / IEC 60332-3 and EN 50399.  
Reaction to fire CPR: B2ca -s1a, d1, a1 (for single core cables) and B2ca -s1b, d1, a1 (for multicore cables) according to EN 50575.  
Halogen free according to EN 60754-1 / IEC60754-1.  
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.  
Low smoke emission according to EN 61034 / IEC 61034:  
Light transmittance > 60%.

### 🌀 Mechanical performance

Minimum bending radius during installation: 5x cable diameter.  
Impact resistance: AG2 Medium severity.

### 🌐 Environmental performance

Chemical & Oil resistance: Acceptable.  
UV Resistant according to UNE 211605 and EN 50618.  
Water resistance: AD8 Submersion.

### 🔧 Installation conditions

Open Air.  
Buried.  
In conduit.

## STANDARDS / COMPLIANCE

📄 According to  
IEC 60502-1 / UNE 21123-4

🌐 Standards and approvals  
RoHS / CE

🏠 CPR (Construction Products Regulation)  
B2<sub>ca</sub> -s1a, d1, a1 (single core cables)  
B2<sub>ca</sub> -s1b, d1, a1 (multicore cables)





## APPLICATION

Toxfree<sup>®</sup> Plus 331 ZH RZ1-K (AS+) is a fire resistant cable, specially designed to ensure the power supply to emergency circuits in the event of fire. During a fire you need critical circuits to work for life safety (signalling lights, fume extractors, acoustic alarms, water pumps, etc) and a secure plant shutdown. For this reason, its use is highly recommended in public places such as: hospitals, tunnels, offices, production plants, laboratories, hotels, etc.

## CONSTRUCTION

### Conductor

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

### Insulation

Mica tape + Cross-linked polyethylene type DIX-3 according to HD 603.

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

### Outer sheath

Fireproof polyolefin with low smoke and halogen free fumes under fire conditions.

Orange 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


**Fire performance**  
Flame non-propagation according to EN 60332-1 / IEC 60332-1.  
Fire non-propagation according to EN 60332-3 / IEC 60332-3 and EN 50399.  
Fire resistant (PH120) minimum 120 minutes at 840 °C:  
According to IEC 60331-2 / EN 50200 for cable diameter ≤ 20 mm.  
According to IEC 60331-1 / EN 50362 for cable diameter > 20 mm.  
Fire resistant category C (180 minutes at 950°C), W & Z according to BS 6387.  
Fire resistant category Rf 1h30 according to NBN S21-300-1.  
Reaction to fire CPR: B2<sub>ca</sub>-s1a,d1,a1 or C<sub>ca</sub>-s1b,d1,a1 according to EN 50575 (see cross-section).  
Halogen free according to EN 60754-1 / IEC 60754-1.  
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.  
Low smoke emission according to EN 61034 / IEC 61034:  
Light transmittance > 60%.


**Mechanical performance**  
Minimum bending radius: 5x cable diameter.  
Impact resistance: AG2 Medium severity.  
Test impact at -25°C according HD 604-5D.


**Environmental performance**  
Chemical & Oil resistance: acceptable.  
UV Resistant according to EN 50618.  
Water resistance: AD5 Jets.

**Installation conditions**  
Open Air.  
Buried.  
In conduit.

## STANDARDS / COMPLIANCE

 According to  
IEC 60502-1 / UNE 211025

 Standards and approvals  
AENOR / RoHS / CE

 CPR (Construction Products Regulation)  
B2<sub>ca</sub>-s1a,d1,a1 (according to cross-section) or  
C<sub>ca</sub>-s1b,d1,a1 (according to cross-section)



# TOPDRIVE® VFD (EMC) ROZ1-K (AS) 0,6/1 kV

Flexible LSHF screened cable for Variable Frequency Drive cables (VFD cables).

ACCORDING TO: IEC 60502-1 / IEC 60092-353



FR / EN



C<sub>ca</sub>

## APPLICATION

TOPDRIVE® VFD (EMC) ROZ1-K (AS) cable has been specially designed for Variable Frequency Drive Motors and installations where it is necessary to limit the effects of electromagnetic interference (EMI). This is a flexible cable for fixed installations, for variable speed motors or pumps.

## CONSTRUCTION

### Conductor

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

### Protective Conductor

The ground conductor is divided into three conductors; the equivalent cross-section is approximately 50% of the section of the phase conductor.

For 4G cables, ground conductor has the same cross-section as the phase conductors.

### Insulation

Cross-linked polyethylene type XLPE according to IEC 60502-1, type HF XLPE 90°C according to IEC 60092-360.

The standard identification of insulated conductors is the following:  
3 x +3 G Grey + Brown + Black + Green/Yellow (3 G) (from 6 mm<sup>2</sup> onwards)

4 G Grey + Brown + Black + Green/Yellow (up to 4 mm<sup>2</sup>)

### Assembly of cores

For 3x+3G cables, the three phase conductors are cabled helically with the three protective conductors distributed in the interstices.

For 4G cables, the three phase conductors and protection conductor are cabled helically.

### Screen

Aluminium-polyester tape screen helically placed over the insulated conductors. Over the tape there is a tinned copper braid screen. The tape and the braid act as a double screen to cut out all of the electromagnetic interference, with a minimum total section of 10% of the phase conductor, ensuring a total shielding coverage.

### Outer sheath

Polyolefin type ST8 according to IEC 60502-1 and type SHF1 according to IEC 60092-360.

Black colour.

The ripcord allows you to tear the outer sheath without damaging the screen.

## 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).

Maximum ambient temperature: 60 °C.

Minimum installation and handling temperature: 0 °C.

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 / IEC 60332-3 and EN 50399.

Reaction to fire CPR: C<sub>ca</sub>-s1a, d1, a1 according to EN 50575.

Halogen free according to EN 60754-1 / IEC 60754-1.

Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.

Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 80%.

### Mechanical performance

Minimum bending radius during installation: 10x cable diameter.

Impact resistance: AG2 Medium severity.

### Environmental performance

Chemical & Oil resistance: Acceptable.

UV Resistant according to EN 50618.

Water resistance: AD5 Jets.

### Installation conditions

Being very performant cables there are, however, certain precautions that must be taken into account during installation:

- Always respect the bending radius of the cable. Radius below the minimums indicated can cause damage or breakage in the outer sheath.

- Precautions design of the laying. It is necessary that the laying of the cable is done in a careful way, taking care not to damage the outer sheath in irregular areas, sharp edges, etc.

- Fixings/Fastenings. Adapt fastenings so that the cable adopts a natural position in the laying to avoid stress concentration in the outer sheath. Allow a certain degree of freedom of movement in order to absorb possible movements produced by temperature variations. Open Air. Buried. In conduit.

## STANDARDS / COMPLIANCE



According to  
IEC 60502-1 / IEC 60092-353



Standards and approvals  
BUREAU VERITAS / DNV-GL / ABS /  
LLOYD'S REGISTER / RoHS / CE



CPR (Construction Products Regulation)  
C<sub>ca</sub>-s1a, d1, a1





## APPLICATION

Screenflex<sup>®</sup> 110/200 LiYCY VC4V-K is a screened control cable. It is used in all types of signal transmission connections where the voltage induced by an exterior electromagnetic field may affect the signal transmitted.

Its most common applications are control circuits, electronic equipment connections, computer systems, etc.

## CONSTRUCTION

### Conductor

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

### Insulation

Flexible PVC type T12 according to EN 50363-3 and type PVC/A according to IEC 60502-1.

The standard identification of insulated conductors according to HD 308 and EN 50334 is the following:

1 x	Natural
2 x	Blue + Brown
3 G	Blue + Brown + Green/Yellow
3 x	Brown + Black + Grey
4 G	Brown + Black + Grey + Green/Yellow
4 x	Brown + Black + Grey + Blue
5 G	Brown + Black + Grey + Green/Yellow + Blue
6 or more	Black numbered + Green/Yellow.

Other identifications (JZ, OZ, J, O) are available on request.

### Screen

Aluminium-polyester tape screen with overlapping tinned copper braid, ensuring full screening coverage.

### Outer sheath

Flexible PVC type TM2 according to EN 50363-4-1 and type ST1 according to IEC 60502-1.

Black or grey colour (grey for fire non-propagation).

The ripcord allows you to gently tear the outer-sheath and remove it without damaging the screen.

## CHARACTERISTICS

### Electrical performance

Low voltage: 300/500 V. (up to 1,5 mm<sup>2</sup>).  
0,6/1 kV (from 2,5mm<sup>2</sup> onwards).

### Thermal performance

Maximum conductor temperature: 70°C.  
Maximum short-circuit temperature: 160°C (max. 5 s).  
Minimum service temperature: -40°C (static, with protection).

### Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.  
Fire non-propagation according to EN 60332-3 / IEC 60332-3 (only grey outer sheath).

Reaction to fire CPR according to EN 50575:

C<sub>ca</sub> -s2, d1, a3 (grey outer sheath 300/500 V)

C<sub>ca</sub> -s3, d1, a3 (grey outer sheath 0,6/1 kV).

E<sub>ca</sub> (black outer sheath).

Low halogen emission. Chlorine < 15%.

### Mechanical performance

Minimum bending radius: 5x cable diameter.  
Impact resistance: AG2 Medium severity.

### Environmental performance

Chemical & Oil resistance: Good.  
UV Resistant according to UNE 211605.  
Water resistance: AD5 Jets.

## STANDARDS / COMPLIANCE



### Based on

EN 50525 / IEC 60502-1



### Standards and approvals

RoHS / CE



### CPR (Construction Products Regulation)

C<sub>ca</sub> -s2, d1, a3 (grey outer sheath 300/500 V)

C<sub>ca</sub> -s3, d1, a3 (grey outer sheath 0,6/1 kV)

E<sub>ca</sub> (black outer sheath).





## XTREM®

The rubber cable  
for industrial and  
mobile use



[www.topcable.com](http://www.topcable.com)



## H07RN-F

XTREM® is the best rubber cable choice. Our rubber cables offer several advantages: great flexibility, durability, and resistance to environmental challenges. They are known for their ability to bend easily, making them suitable for frequent movement or installation in confined spaces.

**Request Xtrem® rubber cables from your usual cable supplier.**



## APPLICATION

Xtrem<sup>®</sup> H07RN-F rubber cables are designed to supply power to low voltage appliances including electric motors and submersible pumps in deep water installations, as well as many other electrical equipment.

Thanks to its extraordinary flexibility and mechanical strength, the Xtrem<sup>®</sup> H07RN-F cable is ideal for power transmission in both fixed installation or mobile service.

The use nominal voltage up to 1000 V is accepted in fixed protected assemblies.

Top Cable Xtrem<sup>®</sup> H07RN-F cables are designed to power all types of electrical equipment including motors and submersible pumps in deep water installations (AD8).

## CONSTRUCTION

### Conductor

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

### Insulation

Thermosetting rubber, type EI7 according to EN 50363-1.

The standard identification according to HD 308 and EN 50334 is the following:

1 x	Natural
2 x	Blue + Brown
3 G	Blue + Brown + Green/Yellow
3 x	Brown + Black + Grey
4 G	Brown + Black + Grey + Green/Yellow
4 x	Brown + Black + Grey + Blue
5 G	Brown + Black + Grey + Blue + Green/Yellow
5 x	Brown + Black + Grey + Black + Blue
6 or more	Black numbered + Green/Yellow

### Outer sheath

Thermosetting flexible rubber, type EM7 according to EN 50363-2-1. Black colour.

## CHARACTERISTICS

**Electrical performance**  
Low voltage: 450/750 V.

**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) and -25°C (mobile use).

**Fire performance**  
Flame non-propagation according to EN 60332-1 / IEC 60332-1.  
Reaction to fire CPR: E<sub>ca</sub> according to EN 50575.

**Mechanical performance**  
Minimum bending radius:  
3x cable diameter < 12 mm.  
4x cable diameter ≥ 12 mm.  
Impact resistance: AG2 Medium severity.

**Environmental performance**  
Chemical & Oil resistance: Excellent.  
Grease & mineral oils resistance: Excellent.  
UV Resistant according to EN 50618.  
Water resistance: AD8 Submersion.  
Cable for submersible pumps in drinkable water according to AS/ NZS 4020.  
Deep wells. AWQC.

**Installation conditions**  
Open Air.  
Submersible pumps cable.

**Other**  
Meter by meter marking.

## STANDARDS / COMPLIANCE

**According to**  
EN 50525-2-21 / IEC 60092-353 / IEC 60245-4

**Standards and approvals**  
HAR / AENOR / DNV / RoHS / CE

**CPR (Construction Products Regulation)**  
E<sub>ca</sub>





C<sub>ca</sub>



## APPLICATION

The TOPSOLAR<sup>®</sup> PV H1Z2Z2-K cable, which is TÜV certified according to EN 50618 and AENOR certified according to IEC 62930, it is suitable for both fixed and mobile solar installations (solar farms, rooftop solar installations and floating plants).

It is a highly flexible cable compatible with all major connectors and specially designed for the connection of photovoltaic panels.

This versatile single-conductor cable is designed to meet the varying needs of the solar industry.

Suitable for wet, damp and humid locations.

- Solar PV installations string cable.

## CONSTRUCTION

### Conductor

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

### Insulation

Halogen free cross-linked rubber according to table B1 in Annex B of EN 50618 and IEC 62930.

### Outer sheath

Halogen free cross-linked flexible rubber according to table B1 in Annex B of EN 50618 and IEC 62930.  
Red or black colour.

## CHARACTERISTICS

**Electrical performance**  
Low voltage: 1,5 (1,8) kV DC.  
1,0/1,0 kV AC.

**Thermal performance**  
Maximum conductor temperature: 90°C (120°C during 20.000 h).  
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 60332-1-2 / IEC 60332-1-2.  
Fire non-propagation according to EN 50399.  
Reaction to fire CPR: C<sub>ca</sub>-s1b, d2, a1 according to EN 50575.  
Low smoke halogen free according to EN 60754-1 / IEC 60754-1.  
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.  
Low smoke emission according to EN 61034 / IEC 61034:  
Light transmittance > 60%.

**Mechanical performance**  
Minimum bending radius:  
4x cable diameter (cable diameter ≤ 8 mm)  
5x cable diameter (8 < cable diameter ≤ 12 mm)  
6x cable diameter (cable diameter > 12 mm).  
Impact resistance: AG2 Medium severity.

**Environmental performance**  
Chemical & Oil resistance: Excellent.  
Grease & mineral oils resistance: Excellent.  
Ozone resistant according to EN 50618.  
UV Resistant according to EN 50618 and IEC 62930.  
Water resistance: AD7+ Immersion.  
AD8 Submersion.

**Installation conditions**  
Open Air.  
Buried.  
In conduit.

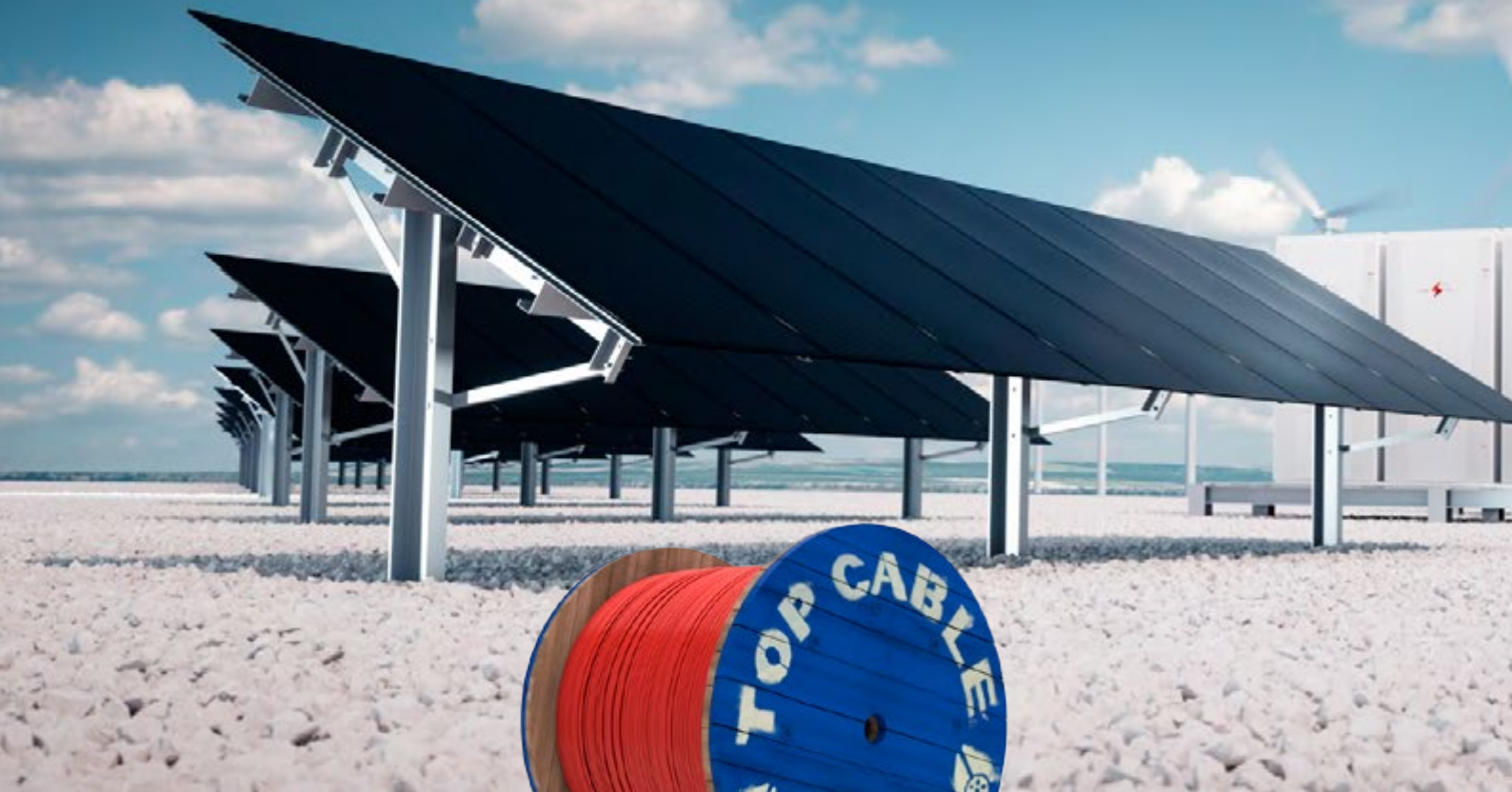
## STANDARDS / COMPLIANCE

According to  
EN 50618/ IEC 62930 / UTE C 32-502

Standards and approvals  
TÜV Rheinland (from 2.5 to 25mm<sup>2</sup> in Black and Red) / RETIE / AENOR/ RoHS / CE

CPR (Construction Products Regulation)  
C<sub>ca</sub>-s1b, d2, a1





# TOPSOLAR®

Maximum safety  
and performance  
for your solar installation



C<sub>ca</sub>, s1b-d2-a1



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# H1Z2Z2-K

As required by most European countries regulations, cables for solar installations on rooftops of public places (hospitals, supermarkets, shopping centres) must comply with CPR C<sub>ca</sub> classification.

Our TOPSOLAR® H1Z2Z2-K, in addition to being TÜV-certified, it is CPR-certified as C<sub>ca</sub>-s1b,d2,a1, the safest of the CPR solar cables certifications.

**Request C<sub>ca</sub> solar cables from your usual cable supplier.**

**Top Cable**

Driving your energy



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