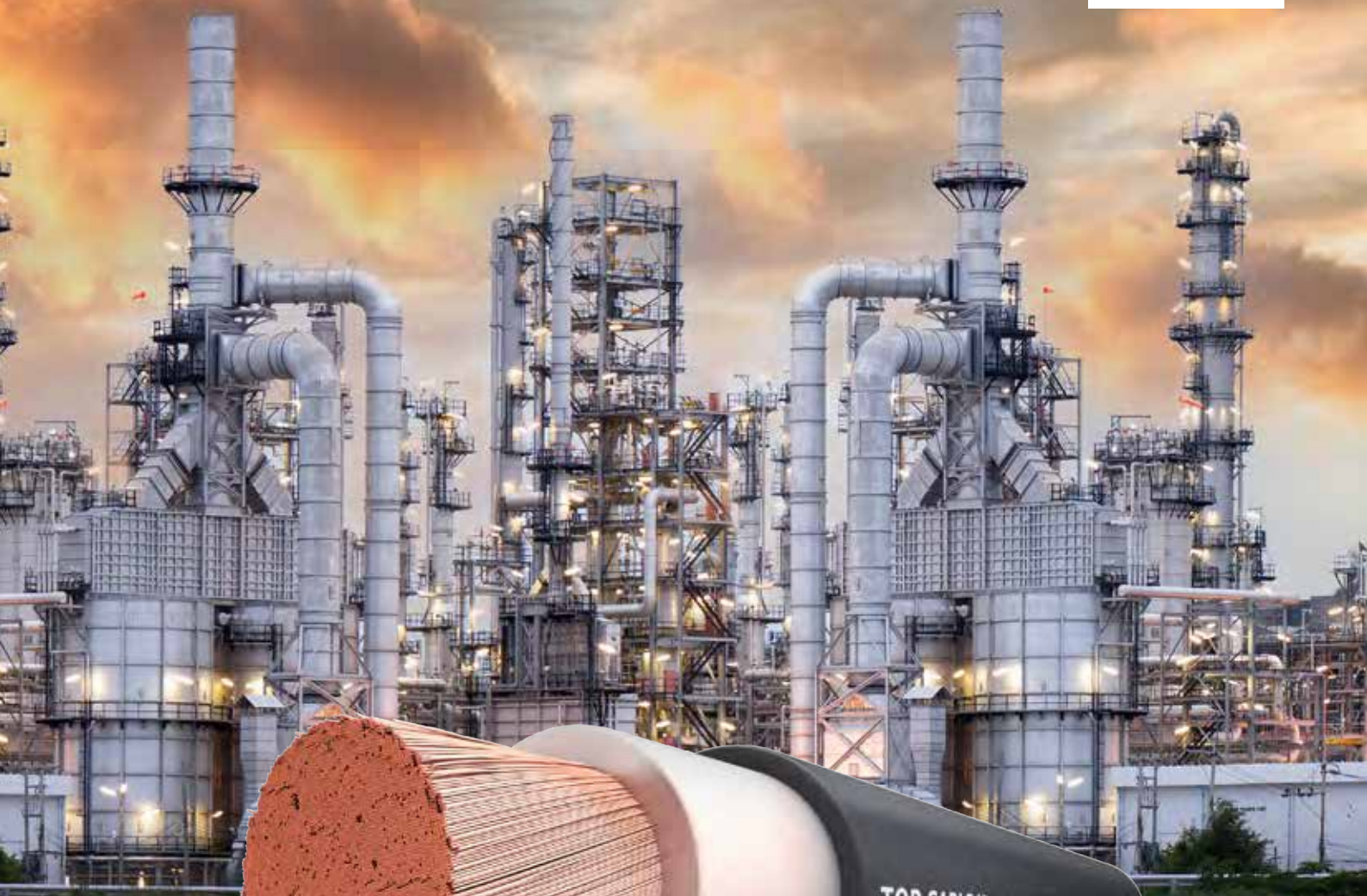




RUBBER CABLES

Extra-flexible rubber
cables for industrial
installations



A complete range of rubber cables for industrial and mobile use

At Top Cable you will find a reliable manufacturer and supplier of rubber cables. Our XTREM® rubber cable range has exceptional flexibility, durability and resilience against environmental challenges. We can provide technical expertise with cable design and selection, logistics and after-sales service support.

The robustness-flexibility tandem makes our rubber cables ideal for supplying electrical power in the most demanding installations:



Industry



Construction



Mining industry,
oil, gas.



Wind turbines.



Agricultural
establishments.



Audio-visual
engines



Submersible
pumps and
drinking water



Aquaculture,
fish/shrimp
farms



Marine
applications



Hand-held
power tools



E_{ca}

APPLICATION

Xtrem® 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® 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® 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 EM2 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_{ca} 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_{ca}





XTREM[®] DN-F 0,6/1 kV

Flexible rubber cable, for industrial use.

BASED ON: UNE 21150



E_{ca}

APPLICATION

Xtrem[®] DN-F is a flexible and rubber cable for mobile heavy duty.

Suitable for installations in dry, damp or wet locations, outdoors, for hazardous areas with explosive gas atmospheres, machines in industrial workshops, motors and transportable machines; on construction sites and for agricultural exploitations.

Suitable for submerged installations (AD8).

CONSTRUCTION

Conductor

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

Insulation

Thermosetting rubber type EPR according to IEC 60502-1.

The standard identification 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
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

Thermosetting flexible rubber type SE1 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) and -25°C (mobile use).



Fire performance

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

Reaction to fire CPR: E_{ca} 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.

Submersible pumps in drinkable water according to AS/NZS 4020.

Deep wells.

Drinkable water. AWQC.



Installation conditions

Open Air.

Submersible pumps cable.



Other

Meter by meter marking.

STANDARDS / COMPLIANCE



Based on
UNE 21150



Standards and approvals
RoHS / CE



CPR (Construction Products Regulation)
E_{ca}





The extra-flexible LSHF rubber cable for mobile service.

BASED ON: UNE 21150

ACCORDING TO: UL 758 / CSA 22.2



APPLICATION

Xtrem® DZ-F is a flexible cable for mobile installations. Suitable to be used in windmills and halogen free, no fire propagation and low smoke and no corrosive gases emission in case of fire

CONSTRUCTION

Conductor

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

Insulation

Halogen free thermosetting rubber, type EPR according to UNE 21150 and type EPDM 90°C/1000 V ac according to UL 758 and CSA 22.2 (AWM Style 3775).

The standard identification according to HD 308, is the following:

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

Outer sheath

Halogen free thermosetting flexible rubber, with low smoke emission in case of fire, type EM8 according to EN 50363-6 and type EVA 90°C/1000 V ac according to UL 758 and CSA 22.2 (AWM Style 21465).

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 temperature in mobile service: -40°C.

 **Fire performance**
Flame non-propagation according to EN 60332-1 / IEC 60332-1.
Horizontal flame test according to UL 2556 and CSA C22.2.
Fire non-propagation according to EN 60332-3-24 / IEC 60332-3-24 and EN 50399.
Reaction to fire CPR: Cca-s1b, d2, a1 according to EN 50575 (see cross-section).
Halogen free according to EN 60754-1 / IEC 60754-1.
Low corrosive gases emission according to UNE-EN 60754-2 / IEC 60754-2.
Low smoke emission according to EN 61034 / IEC 61034:
Light transmittance > 60%.
Toxicity index according to NES 713 / NF C 20454:
It ≤ 1,5.

 **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.
Oil resistance: IRM 902 (24 h/100 °C).
Grease & mineral oils resistance: Excellent.
Water resistance: AD7 immersion.
Ozone resistance according to EN 60811 (24 h / 25 °C / 250 ppm ozone).
Sunlight resistant: according to UL 2556 and CSA C22.2.

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

 **Other**
Meter by meter marking.

STANDARDS / COMPLIANCE

-  Based on
UNE 21150
-  According to
UL 758 / CSA 22.2
-  Standards and approvals
CE / UL





TOXFREE® XTREM ZH H07ZZ-F (AS)

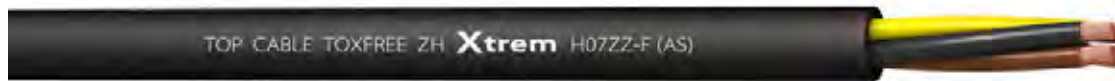
The extra-flexible LSHF rubber cable for mobile service.

ACCORDING TO: EN 50525-3-21



B2_{ca}

C_{ca}



APPLICATION

Toxfree® Xtrem ZH H07ZZ-F (AS) is a flexible cable for mobile service, suitable for installations where low smoke and halogen free fumes under fire conditions are required. The use nominal voltage up to 1000 V is accepted in fixed protected assemblies. Suitable for installations where the cable must withstand medium mechanical stress, for machines in industrial and agricultural workshops, for motors and transportable machines on construction sites, for windmills and for agricultural applications.

- Industrial use.
- Mobile use.
- Windmills.

CONSTRUCTION

Conductor

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

Insulation

Halogen free thermosetting rubber, type EI8 according to EN 50363-5.

The standard identification according to HD 308, is the following:

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

Outer sheath

Halogen free thermosetting flexible rubber, type EM8 according to EN 50363-6.

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 temperature in mobile service: -40°C.



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_{ca}-s1b, d1, a1 or C_{ca}-s1b, d2, a1 according to EN 50575 (see cross-section).

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

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

Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 60%.



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.

Water resistance: AD7 immersion.



Installation conditions

Open Air.

In conduit.



Other

Meter by meter marking.

STANDARDS / COMPLIANCE



According to
EN 50525-3-21



Standards and approvals
HAR / AENOR / CE



CPR (Construction Products Regulation)
B2_{ca}-s1b, d1, a1. (according to cross-section) or
C_{ca}-s1b, d2, a1. (according to cross-section)

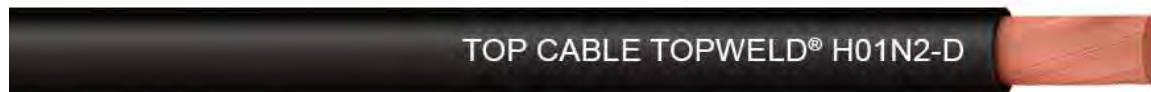




TOPWELD[®] H01N2-D

The special cable for welding.

ACCORDING TO: EN 50525-2-81



APPLICATION

Topweld[®] H01N2-D is a harmonized, flexible, rubber welding cable specially designed for transmitting high currents between the welding generator and the electrode.

Its flexibility makes using the welding tool easier and it also prevents knots from forming in the cable that could cause the internal conductor to break.

It can also be used in automatic welding and machine tools, conveyor systems and production or assembly lines, for example in automobile assembly lines.

- Welding.
- Industrial use.
- Mobile use.
- Robotics.
- Conveyors.

CONSTRUCTION

Conductor

Electrolytic annealed copper, class D (extra-flexible) according to EN 50525-2-81.

Insulation

Flexible rubber, type EM5, according to EN 50363-2-2.
Black colour.

CHARACTERISTICS



Electrical performance

Low voltage: 100/100 V.



Thermal performance

Maximum conductor temperature: 85°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -20°C (mobile use).



Fire performance

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



Mechanical performance

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



Environmental performance

Chemical & Oil resistance: Excellent.
Grease & mineral oils resistance: Excellent.



Installation conditions

Open Air.



Other

Meter by meter marking.

STANDARDS / COMPLIANCE



According to
EN 50525-2-81



Standards and approvals
HAR / AENOR / RoHS / CE







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.





10 reasons why Top Cable

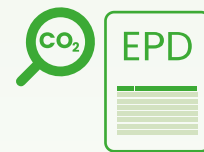
is already one of the most sustainable
cable manufacturers in Europe



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

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 personnell to conduct rigorous **MV quality tests** to ensure our Medium Voltage cables meet your most demanding requirements.



Top Cable Resources

GENERAL CATALOGUE



SOLAR CABLES



LSHF CPR CABLES



XLPE/PVC CABLES





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RUBBER CABLES

Top Cable
Driving your energy

www.topcable.com

