



E_{ca}

APPLICATION

Xtrem[®] DN-F cables are designed to supply power to low voltage appliances like submersible pumps in deep water installations, mining installations as well as many other types of electrical equipment.

CONSTRUCTION

Conductor

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

Insulation






Thermosetting rubber insulation, type EPR according to UNE 21150. The standard identification of insulated conductors, according to UNE 21089-1 and 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

Insulation

Thermosetting flexible rubber outer sheath, type SE1 according to UNE 21150. Black colour.

CHARACTERISTICS

-  **Electrical performance**
Low voltage: 1,8/3 kV.
-  **Thermal performance**
Maximum service temperature: 90°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (static with protection) and -35°C (mobile service).
-  **Fire performance**
Flame non-propagation according to UNE-EN 60332-1 / IEC 60332-1.
Reaction to fire CPR: E_{ca} according to EN 50575.
-  **Mechanical performance**
Minimum bending radius:
3 x cable diameter < 12 mm.
4 x cable diameter ≥ 12 mm.
Impact resistance: AG2 Medium severity.
-  **Environmental performance**
Chemical & Oil resistance: excellent.
Grease & mineral oils resistance: excellent.
Water resistance:
AD8 Submersion.
Submersible pumps.
Deep wells.
Drinkable water.

STANDARDS / COMPLIANCE



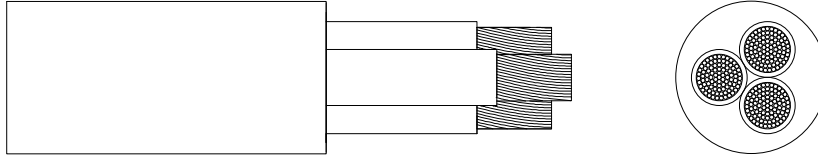
Based to
UNE 21150



Standards and approvals
RoHS / CE



DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-Section (mm ²)	Diameter (mm)	Weight (kg/km)	Open air (A) ¹	Voltage drop (V/A · km) ²
1 x 185	28,6	2.070	575	0,270
1 x 240	31,3	2.635	679	0,204

¹Reference method F for single-core and method E for multicore cables according to IEC60364-5-52 in open air at 30°C ambient temperature.

² At maximum service temperature and $\cos\phi=1$.

For all cables it is supposed a single-phase circuit.