

## TXXI UltraFlex 1kV

### Object

This document defines the design and manufacturing characteristics of the cable type TXXI UltraFlex 0,6/1 kV.

### Design

This type of cable is designed, manufactured and tested according to IEC 60502-1 and UNE 21123-4.

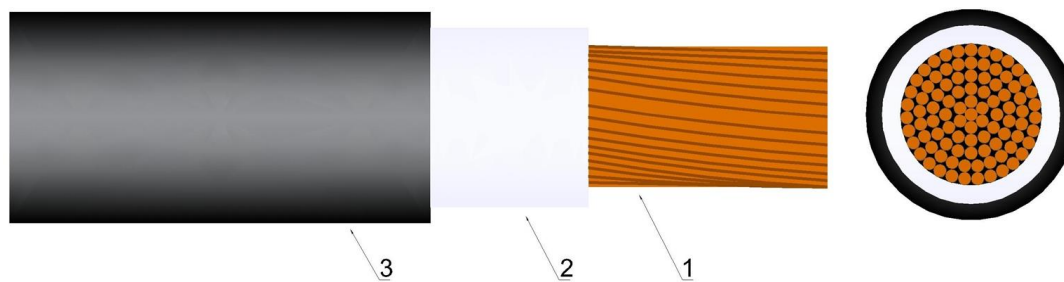
### Applications

Flexible cable for fixed installations. Suitable for installations where it is required a low smoke and halogen free cable which must perform under fire conditions.

### Characteristics

Nominal voltage:	0,6/1kV
Minimum service temperature:	-40 °C (static, with protection)
Maximum conductor temperature:	90 °C
Minimum installation and handling temp.:	0 °C
Maximum ambient temperature:	60 °C
Maximum short-circuit temperature:	250°C (maximum 5 s.)
Minimum bending radius:	5 x cable Ø
No flame propagation:	according to EN 60332-1/ IEC 60332-1
No fire propagation:	according to EN 60332-3-24/ IEC 60332-3-24/ EN 50399
Reaction to fire CPR:	Dca-s1,d2,a1 according to EN 50575
Halogen free:	according to EN 60754/ IEC 60754 HCl content < 0,5 % pH > 4,3 conductivity < 10 µS/mm
UV resistance:	according to EN 50618

### General make-up of the cable



#### Conductor (1)

Electrolytic annealed copper conductor, class 5 according to IEC 60228.

#### Insulation (2)

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

#### Outer sheath (3)

Flexible polyolefine outer sheath, black colour, with low smoke and halogen free fumes under fire conditions.

### Short-circuit current-carrying capacities

The maximum short-circuit current the cable can withstand depend on the time of reaction of the protection elements installed in the line. The maximum current-carrying capacity in a short-circuit accident, for a specific type of cable, is the result of multiplying the cross section of the cable for the values shown in table 1. These values are taken from IEC 949.

Time (s)	0,1	0,2	0,3	0,5	1	1,5	2	2,5	3
A/mm <sup>2</sup>	452	320	261	202	143	117	101	90	83

Table 1

### Dimensions, weights and technical data

Table 2 show the diameters and weight

El nr.	RZ1-K 0,6/1kV		
	Cross section mm <sup>2</sup>	Ø ext. mm	Dimensions and weight
			Weight kg/km
1098963	1x95	17,2	910
1098964	1x150	21,0	1445
1098965	1x185	23,1	1710
1098966	1x240	26,2	2240
1098967	1x300	28,9	2830
1098968	1x400	33,8	3740

Table 2