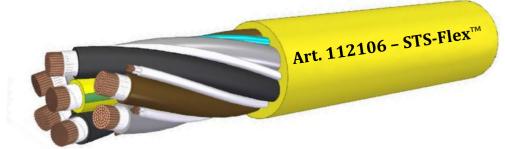


STS-Flex[™] 0,6/1kV

Shore power or charging cable for vessels



STS-Flex $^{\text{m}}$ is a 1kV cable for shore power and/or charging cable for all types of vessels that need a shore power connection. It is resistant to both fresh and salt water, and can withstand occasional submersion up to 20m. The cable is not armoured, so care must be taken that it is not exposed to propellers or similar.

STS-Flex[™] has a small diameter, is weight optimized and very flexible. This makes it flexible in use and easy to handle and coil. Occasionnal reeling use is also allowed, for example for daily storage of the cable. The cables can also be supplied in reelable types on demand.

The cable design is based on an existing product for airport industry that has been used for several decades, with very good service life and handling characteristics.

The cable is available from 125A up to 350A as standard, but can be delivered up to 1000A if desired. The current carrying capacity is based on a maximum ambient temperature of 30°C fully unrolled and lying on the ground, and a maximum conductor temperature of 90°C at full load.

STS-Flex[™] has a symmetrical design with splitted pilot conductors to increase the life of the cable. Each pilot is twisted together by 3 pilot leaders, so that there are 4 pilots in total (4 triads). The cable has standard conductors identification according to HD308 as well as numbered pilot conductors from 1-12.

The cable is UV resistant and cold flexible down to -40°C. It is also halogen-free and flame retardant

Art.nr	Туре	Outer diam. mm	Ampacity A	Weigth kg/m
113832D	STS-Flex [™] 7G16 mm ² + 4x3x0,5 mm ²	25,3 ± 1,2	125A	1,6
112106D	STS-Flex [™] 7G35mm ² + 4x3x0,75mm ²	38,9 ± 1	250A	3,45
113983F	STS-Flex [™] 7G70mm ² + 4x3x0,75mm ²	52 ± 2,5	350A	6,41

Common to all cross sections	
Outer cap	PUR, Flame retardant and halogen-free, color yellow
Dranastica	Extra flexible cable
Properties	Durable PUR outer jacket with good cut and tear resistance
Temperature range	- 30°C to + 80°C
Halogen-free and flame retardant	IEC 60754-1/2 & IEC 60332-1
Weather- Ozone & UV resistant	Yes
Freshwater and saltwater resistant	Yes

See the following pages for detailled information about the 3 different cables

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STS-FlexTM 0.6/1kV, extra flexible $7x16 \text{ mm}^2 + 4x3x0.5 \text{ mm}^2$

113832/C	CONSTRUCTION	
	Assembly	7x16 mm ² Class 6 bare copper conductors with TPE insulation, 12x0.5 mm ² tinned copper conductors Class 6 with TPE-E insulation, assembled at short pitch
	Pilot cores configuration	Triad with tape
	TECHNICAL DATA	
	Color coding	Color-coded according to. HD308, 2x Black, 2x Brown, 2x Grey +1 Green/Yellow (center)
	Operating voltage	0,6/1kV
	Test voltage	2kV/1 min.
16 mm ²	Conductor resistance at 20°C	≤1,27Ω/km
	Maximum load of 2 conductors at 30°C ambient temperature	125A
		Maximum current carrying capacity can be achieved when the cable is fully unrolled and lying on the ground, ambient temperature 30°C and maximum conductor temperature 90°C
	Color coding	White conductors numbered from 1 to 12
0.52	Operating voltage	300V
0,5 mm ²	Test voltage	1kV/1 min.
	Conductor resistance at 20°C	≤ 44,1 Ω/km
PROPERTIES		
Bending radius, movable installation		≥ 260 mm
Bending radius, fixed installation		≥ 130 mm
Weight		1,6 kg/m
Outer diameter		25,3 ± 1,2mm

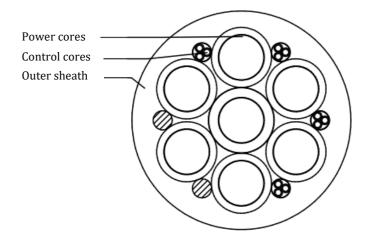
$STS\text{-}Flex^{TM}\ 0,6/1kV\text{, extra flexible }7x35\ mm^2 + 4x3x0,75\ mm^2$

112106/C	CONSTRUCTION		
	Assembly	7x35 mm ² Class 6 bare copper conductors with TPE insulation, 12x0.75 mm ² Class 6 bare copper conductors with TPE-E insulation, assembled at short pitch	
	Pilot cores configuration	Triple with tape	
	TECHNICAL DATA		
35 mm ²	Color coding	Color-coded according to. HD308, 2x Black, 2x Brown, 2x Grey +1 Green/Yellow (center)	
	Operating voltage	0,6/1kV	
	Test voltage	2kV/1 min.	
	Conductor resistance at 20°C	≤ 0,582 Ω/km	
		250A	
	Maximum load of 2 conductors at 30°C ambient temperature	Maximum current carrying capacity can be achieved when the cable is fully unrolled and lying on the ground, ambient temperature 30°C and maximum conductor temperature 90°C	
	Color coding	White conductors numbered from 1 to 12	
0,75 mm ²	Operating voltage	300V	
	Test voltage	1kV/1 min.	
	Conductor resistance at 20°C	≤ 27,3 Ω/km	
PROPERTIES	S		
Bending radius, movable installation		≥ 390 mm	
Bending radius, fixed installation		≥ 200 mm	
Weight		3,45 kg/m	
Outer diameter		38,9 ± 1mm	



STS-FlexTM 0.6/1kV, extra flexible $7x70 \text{ mm}^2 + 4x3x0.75 \text{ mm}^2$

113983/D	CONSTRUCTION	
	Assembly	7x70 mm ² Class 6 bare copper conductors with TPE insulation 12x0.75mm ² Class 6 bare copper conductors with TPE-E insulation, assembled at short pitch
	Pilot cores configuration	Triad with tape
	TECHNICAL DATA	
	Color coding	Color-coded according to. HD308, 2x Black, 2x Brown, 2x Grey +1 Green/Yellow (center)
	Operating voltage	0,6/1kV
	Test voltage	2kV/1 min.
70 mm ²	Conductor resistance at 20°C	≤ 0,29 Ω/km
	Maximum load of 2 conductors at 30°C ambient temperature	350A
		Maximum current carrying capacity can be achieved when the cable is fully unrolled and lying on the ground, ambient temperature 30°C and maximum conductor temperature 90°C
	Color coding	White conductors numbered from 1 to 12
0.752	Operating voltage	300V
0,75 mm ²	Test voltage	1kV/1 min.
	Conductor resistance at 20°C	≤27,3 Ω/km
PROPERTIES		
Bending radius, movable installation		≥ 520 mm
Bending radius, fixed installation		≥ 260 mm
Weight		6,41 kg/m
Outer diameter		52 ± 2,5mm



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