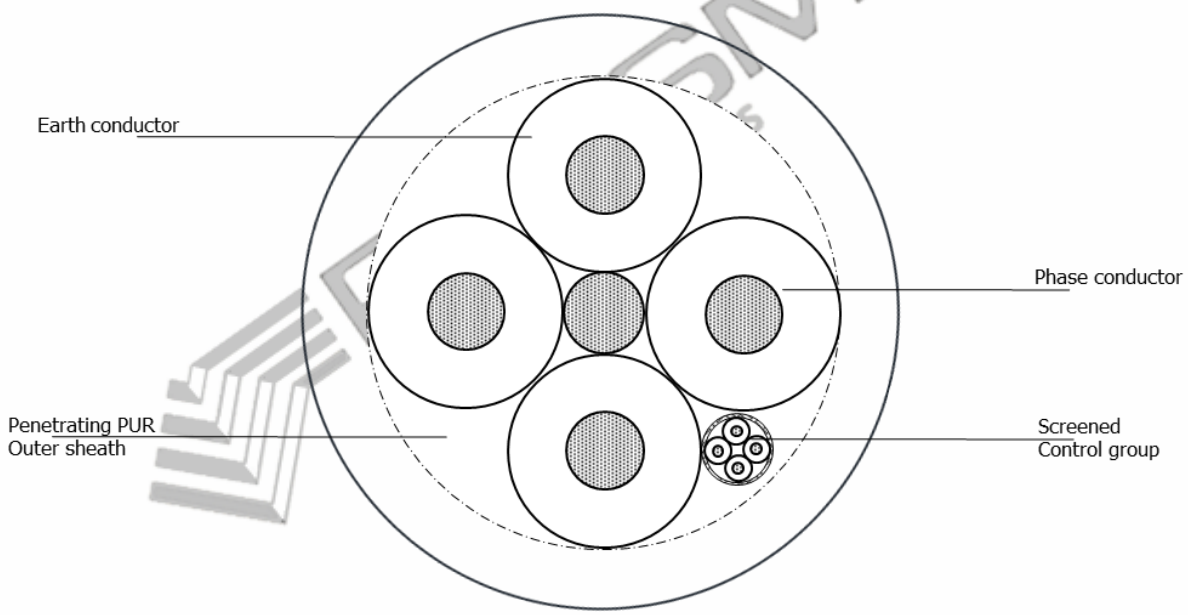
Rev. 0 **19/10/2017**	**TECHNICAL DATA TABLE** **SHIP TO SHORE CONNECTION CABLE**	**STSX – 1 – 3191** Sheet 1 of 3

CAVO TIPO / *CABLE TYPE*
PANZERFLEX-PUR 0.6/1 kV 4G300+1x(4x2.5)St
secondo norme IEC 60502-1 / *according to std. IEC 60502-1*
per quanto applicabile / *as far as applicable*
per temp. ambiente non inferiore a -30°C / *for ambient temp. not below -30°C*

Caratteristiche costruttive / *Constructional data*

non in scala / not to scale



Analisi : 52103367
Articolo : *to be define*

Compiled by: V. Brambati	Approved by: C. Soccal

Rev. 0 **19/10/2017**	**TECHNICAL DATA TABLE** **SHIP TO SHORE CONNECTION CABLE**	**STSX – 1 – 3191** Sheet 2 of 3

	(phases) **3x300 mm²**	**(earth)** **1G300 mm²**	**(control quad)** **1x(4x2.5) St mm²**	**(optica fibers)**
Conductors - approx. diameter	Plain annealed copper flexible cl.5 IEC 60228, for mobile application 23 mm	Plain annealed copper flexible cl.5 IEC 60228, for mobile application 23 mm	Tinned annealed copper flexible cl.5 IEC 60228, for mobile application 1.9 mm	
Insulation / covering - nom. thickness - approx. diameter	XLPE 90 °C 1.8 mm 26.5 mm	XLPE 90 °C 1.8 mm 26.5 mm	XLPE 90 °C 0.6 mm 3.2 mm	
Identification	Brown-Black-Grey	GN/YE	White with printed numbers from 1 to 4	
Optical fibers	N/A	N/A	N/A	
Screen	N/A	N/A	Aluminium/PET tape	
Cable	See drawing			
Penetrating Outer sheath - min. average thickness	BLACK Polyurethane (PUR) – halogen free according to EN 50363-10-2 4.8 mm			
Overall Diameter	Nominal 74.5 mm / MAXIMUM 77.5 mm			
Weight (approx.)	14 kg/m			
Marking (Ink Jet)	PALAZZO - PANZERFLEX-CAVOFLEX- PUR 0.6/1 kV 4G300+1x(4x2.5)St IEC PAS 80005-3 CE (logo) + year			

Electrical characteristics

Rated Voltage U_0/U(Um):
- phase 300 mm² 0.6/1 (1.2) kV
- control 2.5 mm² 300/500 V

Test voltage A.C. (according to IEC 60502-1)
- phase 300 mm² 3.5 kV 5 minutes
- control 2.5 mm² 2.5 kV 5 minutes

Maximum D.C resistance at 20 °C
- phase 300 mm² 0.0641 Ohm/km
- earth 300 mm² 0.0641 Ohm/km
- control 2.5 mm² 8.21 Ohm/km

Short circuit current (1 sec., starting temp. 90 °C, final temp. 250 °C)
- phase 300 mm² 42.9 kA

Current carrying capacity at 30 °C (conductor temp. 80 °C)
- phase conductors 300 mm²
  - stretched laying 620 A
  - mono spiral or 1 layer 496 A
  - 2 layers 378 A
  - 3 layers 304 A

Current carrying capacity at 45 °C (conductor temp. 90 °C)
- phase conductors 300 mm²
  - mono spiral or 1 layer 446 A

De-rating factors for varying ambient temperatures

°C	15	20	25	30	35	40	45	50	60
k	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77	0.63

Mechanical characteristics

Minimum bending radius
- Fixed installation 4 x OD
- On drum 6 x OD
- Guide pulley systems 7.5 x OD
- S-shape deflection 20 x OD

Max permissible tensile load 24000 N (applied on phase + earth conductors)

Minimum operating temperature
- Fully flexible - 30 °C
- Fixed installation - 40 °C

Note: cable is Halogen free (HCl >= 0.5 %) but is not to be considered not toxic

Rev.	Date	Description	Prepared	Approved
1				
0	19/10/2017	First issue for comments		VB

Compiled by: V. Brambati Approved by: C. Soccal