

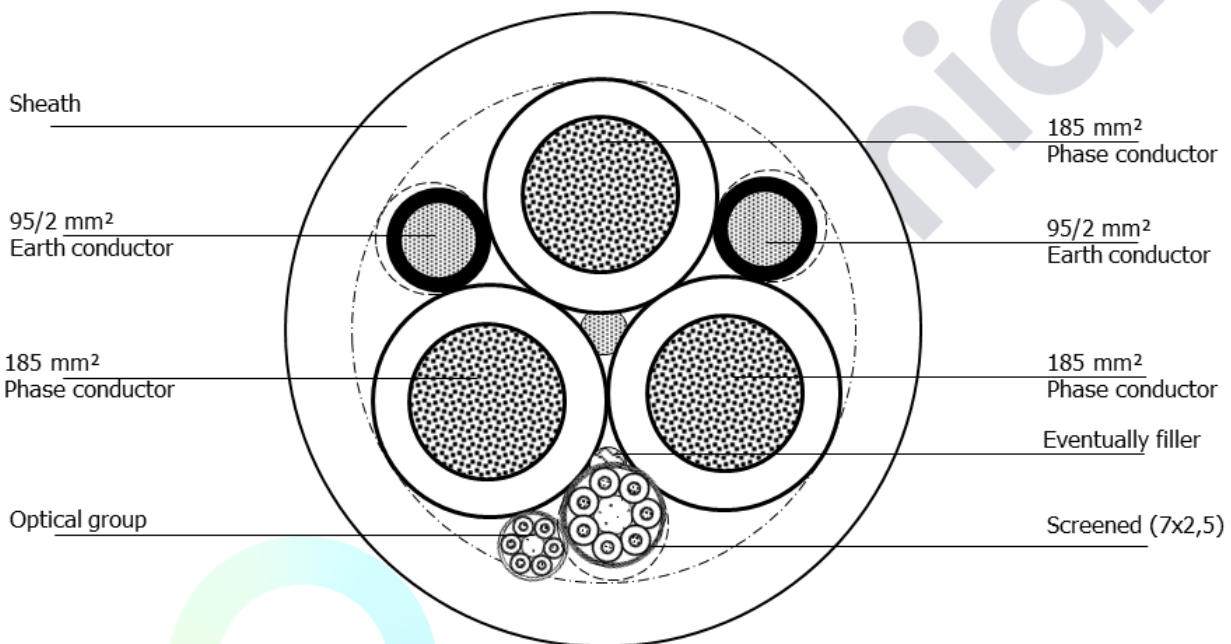
Rev. 1	TECHNICAL DATA TABLE	STSX – 1 – 3999_01_PALAZZO
10/02/2025	SHIP TO SHORE CONNECTION CABLE (HVSC systems)	Sheet 1 of 3

CAVO TIPO / CABLE TYPE

PANZERFLEX-PUR 6/10 kV 3x185+2x95/2+1x(7x2,5)St+OFE 12G62,5/125
ref. norme IEC 60092-300 (serie) e / in line with IEC 60092-300 (series) std. and
IEC/ISO/IEEE 80005-1 annex A / in line with IEC/ISO/IEEE 80005-1 std.
per quanto applicabile / where 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



Analysis : 52104080 01
 PRYSMIAN Code : to be defined

1	10/02/2025	Characteristics of outer sheath added	LK	UY
0	22/05/2024	Issue for offer for customer comments	VB	UY
Rev.	Date	Issued for	Prepared	Approved

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	(phases) 3x185 mm ²	(earth) 2x50 (95/2) mm ²	(pilot cores) 1x(7x2,5)St mm ²	(Optical Fiber Element) 12FO 62,5/125						
Conductors and Optical fibers	Plain annealed copper flexible cl.5 IEC 60228	Plain annealed copper flexible cl.5 IEC 60228	Tinned annealed copper flexible cl.5 IEC 60228	Multi mode G.I. 62,5/125 IEC 60793-2-10 Cat. A1b ISO 11801 EN 50173 OM1 cat.						
- approx. diameter	17,5 mm	9,2 mm	2 mm							
Conductor screen	Semi conductive layer	Semi conductive layer	N/A	N/A						
Insulation / covering	EPR 90 °C		EPR 90 °C	TOL6D 12 6(2MM62,5/125)/T 6 tubes (2 fibers x tube) 8 mm						
- nominal thickness	3,4 mm	N.A.	0,7 mm							
- approx. diameter	26 mm	12,5 mm	3,5 mm							
Insulation screen	Semi conductive layer	N/A	N/A	N/A						
- approx. diameter	27 mm									
Identification	Printed numbers 1-2-3 on semic. layer	N/A	Black cores (*), printed numbers 1 to 7	Fibers Natural-Blu Tubes Red-Blu-other White						
Electrostatic screen	N/A	N/A	Aluminium/PET tape + Tinned copper open braid as drain wire 12,5 mm	N/A						
- approx. diameter										
Cable	See drawing									
Outer sheath	Polyurethane (PUR) halogen free according to EN 50363-10-2, in two layers. UV and oil resistant.									
- nominal thickness	BLACK colored the outer one. 7 mm (6 mm min. at any point)									
Overall Diameter	MAXIMUM 77 mm									
Weight (approx.)	9,9 kg/m									
Marking (Ink Jet, every meter)	PALAZZO – PANZERFLEX PUR <i>week/year</i> –3x185+2x95/2+(7x2,5)St+12FO(62,5/125) 6/10 kV – SHORE CONNECTION CABLE. DANGER! HIGH VOLTAGE – <i>meter</i>									
Electrical characteristics	Rated Voltage U ₀ /U _m as per IEC/ISO/IEEE 80005-1 - phase 185 mm ² 6/10(12) kV (ref. IEC 60092-354) - pilot 2,5 mm ² 150/250(300) V (ref. IEC 60092-376) Test voltage A.C. (according to IEC 60092-350 Tab. 2) - phase 185 mm ² 21 kV x 5 minutes - pilot 2,5 mm ² 1,5 kV x 5 minutes Maximum D.C. resistance at 20 °C (according to IEC 60228) - phase 185 mm ² 0,106 Ohm/km - pilot 2,5 mm ² 8,21 Ohm/km Short circuit current (1 sec., starting temp. 80 °C, final temp. 200 °C., ref. VDE 0250) - phase 185 mm ² 23,7 kA (26,5 kA considering starting/final temp. 90/250 °C) - earth 50 mm ² 6,4 kA (7,2 kA considering starting/final temp. 90/250 °C) Current carrying capacity at 30 °C (conductor temp. 80 °C., ref. VDE 0298) - phase conductors 185 mm ² stretched laying 461 A mono spiral or 1 layer 369 A 2 layers 281 A Current carrying capacity at 45 °C (conductor temp. 90 °C) Mono spiral or 1 layer 343 A									
De-rating factors for varying ambient temperatures	°C	15	20	25	30	35	40	45	50	60
	k	1,12	1,08	1,04	1,00	0,96	0,91	0,87	0,82	0,71
Mechanical characteristics	Minimum bending radius Static 6 x OD Dynamic 10 x OD (ISO/IEC 80005-1 bending test 10±5% x OD) Max permissible tensile load 11100 N (up to 20N/mm ² on phase conductors only) 16650 N (in shore power application: low speed, tide compensation)									
Thermal	Minimum operating temperature Fully flexible - 30 °C Fixed installation - 40 °C									
Fire Performance	Flame retardant IEC 60332-1-2									

Note: cable is Halogen free (HCl ≤ 0,5 %) but is not to be considered as not toxic

(*) Alternative suggested instead off-White/Natural uncolored compound

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Annex A - OPTICAL FIBRE parameters

		Graded index fiber		Single mode fiber
Fiber type		62,5/125	50/125	9/125
Max attenuation at 850 nm	dB/Km	3,0	2,8	–
Max attenuation at 1300 nm	dB/Km	0,9	0,8	–
Max attenuation at 1310 nm	dB/Km	–	–	0,4
Max attenuation at 1550 nm	dB/Km	–	–	0,3
Bandwidth at 850 / 1300 nm	MHz	≥ 200/≥ 600	≥ 500/≥ 500	–
Numerical aperture		0,275 ± 0,02	0,200 ± 0,02	–
Mode field diameter at 1310 nm	µm	–	–	9,0 ± 0,5
Chromatic dispersion at 1300 nm	ps/(nm x Km)	–	–	≤ 3
Chromatic dispersion at 1550 nm	ps/(nm x Km)	–	–	≤ 18
On completed cable				
Max attenuation at 850 nm	dB/Km	5	5	–
Max attenuation at 1310 nm	dB/Km	–	–	0,7