

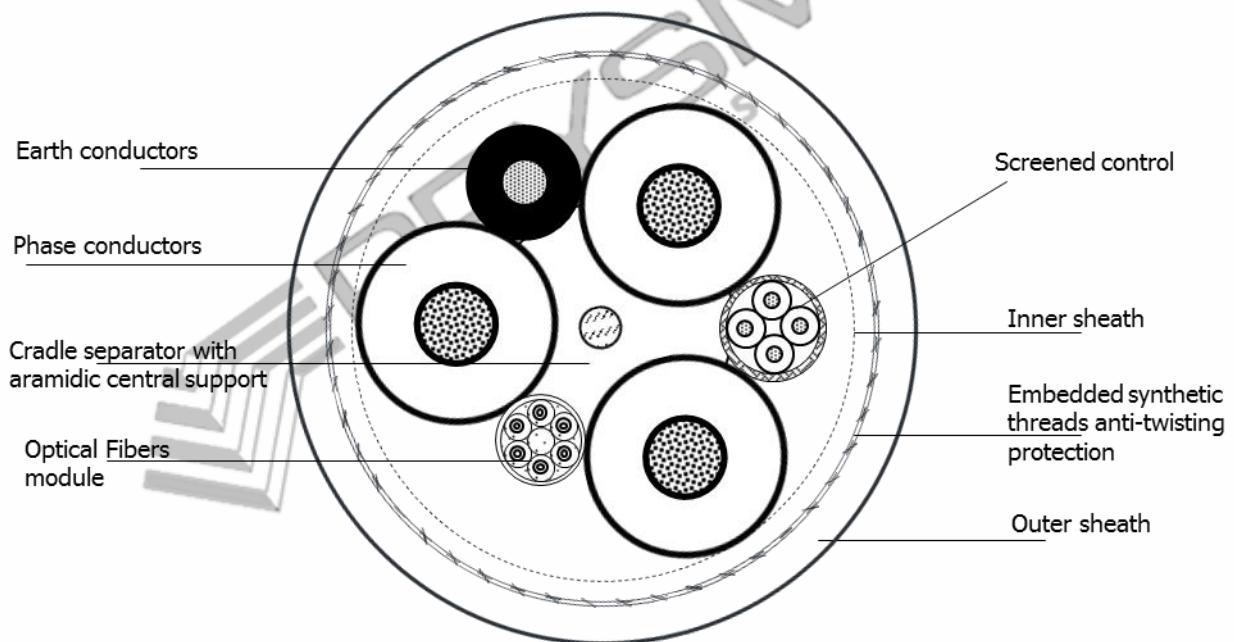
Rev. 0 25/01/2019	TECHNICAL DATA TABLE SHIP TO SHORE CONNECTION CABLE for CAVOTEC	STSX – 1 – 3346_00 Sheet 1 of 3
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CAVO TIPO / CABLE TYPE

PANZERFLEX-Y PUR* 6/10 kV 3x35+1x25+1x(4x2,5)C+1x(6FO 62,5/125)
secondo norme IEC/ISO/IEEE 80005-1 / 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 52103640 00 xx 47 xxx
 PRYSMIAN P/N to be define

Compiled by: V. Brambati	Approved by: A. Parolina
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	(phases) 3x35 mm²	(earth) 1x25 mm²	(screened control) 1x(4x2,5)C mm²	(optical module) 6FO 62,5/125						
Conductors and Optical fibers	Plain annealed copper Flexible cl.5 IEC 60228 for mobile application	Plain annealed copper Flexible cl.5 IEC 60228 for mobile application	Tinned annealed copper Flexible cl.5 IEC 60228 for mobile application	Multimode G.I. 62,5/125 Standard TIA/EIA 492 and IEC 60793-2-10 Category A1b						
- nominal diameter	8,0 mm	6,6 mm	2,0 mm							
Conductor screen	Semi conductive layer	N/A	N/A	TOL6D 6 6(1MM62,5/125)/T 6 tubes (1 fiber x tube)						
Insulation / covering	HEPR 90 °C (IEC 60092-360)	Semi conductive layer	HEPR 90 °C (IEC 60092-360)							
- nom. thickness	3,4 mm	-	0,7 mm							
- approx. diameter	16,8 mm	9,7 mm	3,4 mm	8 mm						
Insulation screen	Semi conductive layer	N/A	N/A	N/A						
- approx. diameter	17,8 mm									
Identification	Printed numbers 1...3 on semi conductive layer	N/A	Off-White (*), printed numbers from 1 to 4	Fibers: Natural Tubes: Red-Blu-other Natural						
Other components	N/A	N/A	Quad screened by tinned annealed copper wires braid . Nom. coverage 80%	N/A						
- approx. diameter			9,5 mm							
Cable	3 + 3 interstitial cores design cabling around central cradle separator									
Inner sheath	Polyurethane (PUR) – BLACK colored halogen free according to EN 50363-10-2.									
Anti-twisting protection	Aramidic yarns firmly bonded between inner and outer sheath									
Outer sheath	Polyurethane (PUR) – BLACK colored halogen free according to EN 50363-10-2.									
Overall Diameter	Nominal 51,0 mm / MAXIMUM 52,0 mm									
Weight (approx.)	3,6 kg/m									
Marking (Ink Jet)	PALAZZO – CAVOFLEX AMP 6/10 kV 3x35+1x25+1x(4x2,5)C+1x(6FO 62,5/125) IEC 80005-1 - year									
Electrical characteristics	<p>Rated Voltage U₀/U(U_m)</p> <p>- phase 35 mm² 6/10 (12) kV (ref. IEC 60092-354)</p> <p>- control 2,5 mm² 0,6/1(1,2) kV (ref. IEC 60092-353)</p> <p>Test voltage A.C. (according to IEC 60092-350 Tab. 2)</p> <p>- phase 35 mm² 21 kV x 5 minutes</p> <p>- control 2,5 mm² 3,5 kV x 5 minutes</p> <p>Maximum D.C. resistance at 20 °C (according to IEC 60228)</p> <p>- phase 35 mm² 0,554 Ohm/km</p> <p>- earth 25 mm² 0,780 Ohm/km</p> <p>- control 2,5 mm² 8,21 Ohm/km</p> <p>Short circuit current (1 sec., starting temp. 80 °C, final temp. 200 °C, ref. VDE 0250)</p> <p>- phase 35 mm² 4,5 kA</p> <p>Current carrying capacity at 30 °C (conductor temp. 80 °C, ref. VDE 0298)</p> <p>- phase 35 mm²</p> <p style="padding-left: 20px;">stretched laying 162 A</p> <p style="padding-left: 20px;">mono spiral or 1 layer 130 A</p> <p style="padding-left: 20px;">2 layers 99 A</p> <p style="padding-left: 20px;">3 layers 79 A</p>									
De-rating factors for varying ambient temperatures (ref. IEC 60364 Tab. B.52.14)	°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	<p>Minimum bending radius</p> <p style="padding-left: 20px;">Fixed installation 6 x OD</p> <p style="padding-left: 20px;">On reels (mobile installation) 12 x OD</p> <p>Max permissible tensile load 2100 N (permanent, up to 20 N/mm²)</p>									
Thermal	<p>Minimum operating temperature</p> <p style="padding-left: 20px;">Fully flexible - 30 °C</p> <p style="padding-left: 20px;">Fixed installation - 40 °C</p> <p>Maximum operating conductor temperature + 90 °C (+250 °C Short-circuit conductor temperature)</p>									

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

(*) Off-White means Natural uncolored compound (**alternative suggested Black cores numbered 1...4**)

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Annex A - OPTICAL FIBRE parameters

		Graded index		Single mode
Fibre type		62,5/125	50/125	9/125
Max attenuation at 850 nm	dB/Km	3	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	–	–	9,2 ± 0,4
Chromatic dispersion at 1300 nm	ps/(nm x Km)	–	–	< 3,5
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