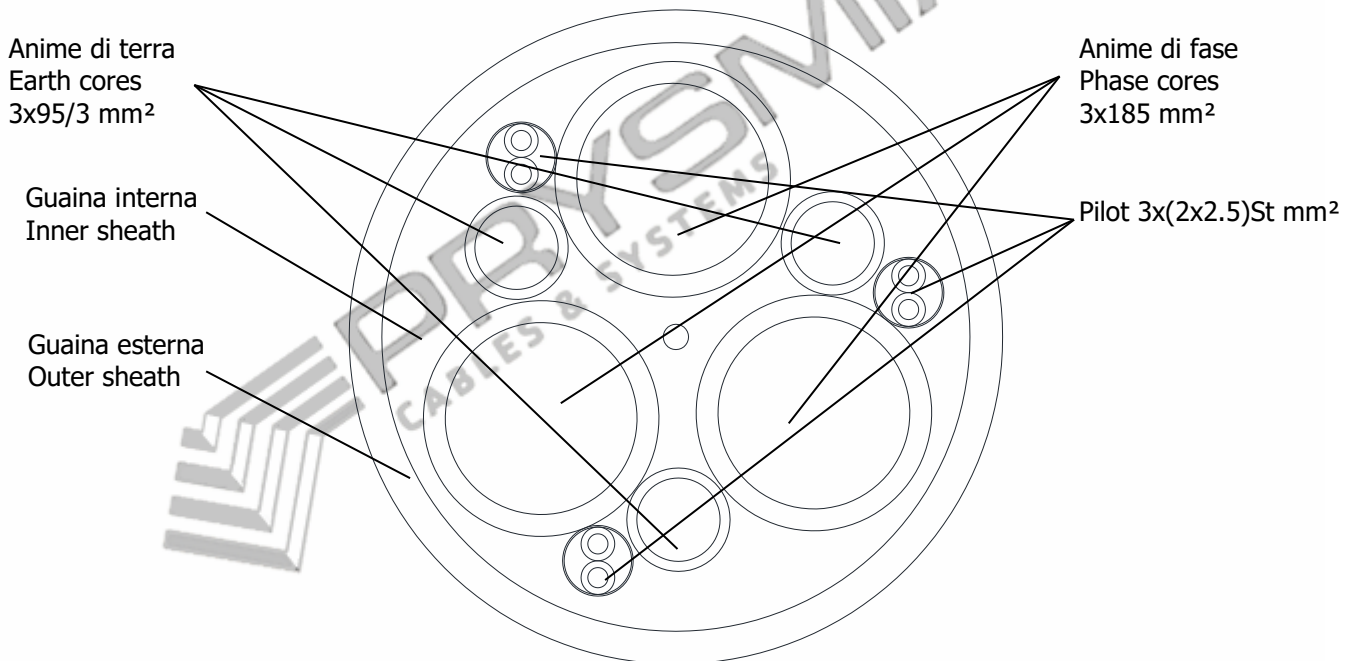


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CAVO TIPO / CABLE TYPE
PANZERFLEX-PUR 0.6/1 kV 3x185+3G95/3+3x(2x2.5)St
secondo norme IEC 60502-1 / according to IEC 60502-1 std.
per quanto applicabile / as far as applicable
per temp. ambiente non inferiore a -30°C / for ambient temp. not below -30°C

Caratteristiche costruttive / Constructional data

non in scala / not to scale



Analisi : 52103066 02 00 47 ***
 Articolo : 20181749

Compiled by: V. Brambati	Approved by: C. Soccal
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	(phases) 3x185 mm ²	(earth) 3G95/3 mm ²	(signal pairs/triples) .x.x.x. mm ²	(pilot cores) 3x(2x2.5)St mm ²																												
Conductors - approx. diameter	Plain annealed copper cl.5 for mobile application 18.2 mm	Plain annealed copper cl.5 for mobile application 7.9 mm	Tinned annealed copper cl.5 for mobile application mm	Tinned annealed copper cl.5 for mobile application 1.9 mm																												
Insulation / covering - nom. thickness - approx. core diameter	XLPE 90 °C 1.6 mm 21.5 mm	XLPE 90 °C 0.9 mm 9.8 mm	HEPR 90 °C (3G13) mm	XLPE 90 °C 0.6 mm 3.2 mm																												
Identification	Brown-Black-Grey	GN/YE	N/A	White with printed numbers from 1 to 6																												
Optical fibers	N/A	N/A	N/A	N/A																												
Screen	N/A	N/A	N/A	Aluminium/PET tape																												
Cable	See drawing																															
Inner sheath	Polyurethane (PUR) – halogen free																															
Anti-twisting protection	N.A.																															
Outer sheath	Polyurethane (PUR) – BLACK color, halogen free according to EN 50363-10-2																															
Overall Diameter	Minimum 60.0 Nominal 61.0 mm / MAXIMUM 64.0 mm																															
Weight (approx.)	8.2 kg/m																															
Marking (Ink Jet)	PALAZZO - PANZERFLEX-CAVOFLEX-Y PUR 0.6/1 kV 3x185+3G95/3+3x(2x2.5)St PAS IEC 80005-3 CE (logo) + year																															
Electrical characteristics	Rated Voltage U ₀ /U(Um): - phase 185 mm ² 0.6/1 (1.2) kV - control 2.5 mm ² 300/500 V Test voltage A.C. (according to IEC 60502-1) - phase 185 mm ² 3.5 kV * 5 minutes - control 2.5 mm ² 2.5 kV * 5 minutes Maximum D.C resistance at 20 °C - phase 185 mm ² 0.106 Ohm/km - earth 95 mm ² 0.206 Ohm/km (parallel connected) - control 2.5 mm ² 8.21 Ohm/km Short circuit current (1 sec., starting temp. 90 °C, final temp. 250 °C) - phase 185 mm ² 26.5 kA Current carrying capacity at 30 °C (conductor temp. 80 °C) - phase conductors 185 mm ² stretched laying: 461 A mono spiral or 1 layer 369 A 2 layers 281 A 3 layers 226 A Current carrying capacity at 45 °C (conductor temp. 90 °C) - phase conductors 185 mm ² Mono spiral or 1 layer 332 A																															
De-rating factors for varying ambient temperatures	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td style="width: 10%; text-align: center;">°C</td> <td style="width: 8%; text-align: center;">15</td> <td style="width: 8%; text-align: center;">20</td> <td style="width: 8%; text-align: center;">25</td> <td style="width: 8%; text-align: center;">30</td> <td style="width: 8%; text-align: center;">35</td> <td style="width: 8%; text-align: center;">40</td> <td style="width: 8%; text-align: center;">45</td> <td style="width: 8%; text-align: center;">50</td> <td style="width: 8%; text-align: center;">60</td> </tr> <tr> <td></td> <td style="text-align: center;">k</td> <td style="text-align: center;">1.14</td> <td style="text-align: center;">1.10</td> <td style="text-align: center;">1.05</td> <td style="text-align: center;">1.00</td> <td style="text-align: center;">0.95</td> <td style="text-align: center;">0.89</td> <td style="text-align: center;">0.84</td> <td style="text-align: center;">0.77</td> <td style="text-align: center;">0.63</td> </tr> </table>											°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
	°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 11100 N 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

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2	19/10/2017	Pilot cores: tinned instead bare copper	VB	CS
1	15/07/2016	Marking changed according to customer request		CS
0	11/07/2016	First issue for comments		CS
Rev.	Date	Description	Prepared	Approved



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