

### MAIN APPLICATION

Extra heavy duty control cables. For application with high mechanical stresses (i.e.: tensile and torsion simultaneously applied). This cable has been developed and designed in order to meet special conditions of application, in particular where small dimensions and light weight are mandatory.

Among its main features we can define:

- . small dimension
- . lighter weight
- . excellent flexibility
- . high operating speed (up to 240m/1')
- . excellent mechanical performances

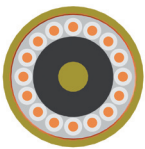


### CONSTRUCTION

<b>Conductor:</b>	Plain copper conductor, extraflexible better than cl.6 IEC 60228 Specially designed for mobile application.
<b>Insulation:</b>	Thin thickness made of special tecnopolymer Special compound with improved electrical and mechanical characteristics
<b>Cores identification:</b>	White with printed numbers
<b>Central strainer:</b>	Made of aramidic yarns To be used as support element
<b>Laying-up:</b>	Short lay length for better flexibility ≤7,5 times the laying-up cores diameter
<b>Separation (if any):</b>	Tape(s)
<b>Inner sheath:</b>	Made of special polyurethane A combination of high flexibility characteristics with improved abrasion and tear resistance characteristics
<b>Antitwisting protection:</b>	Textile braid of synthetic yarns Firmly bonded between inner and outer sheath
<b>Outer sheath:</b>	
<b>Marking:</b>	U.T.V. CAVI manufactured BY PALAZZO - PANZERLITE 0,6/1 kV <i>nc</i> x cross section

### PARAMETERS

<b>ELECTRICAL</b>	Rated voltage	U <sub>0</sub> /U = 0,6/1 kV
	Maximum permissible operating voltage in AC systems	U <sub>m</sub> = 1,2 kV
	AC test voltage over 5 minutes	2,5 kV
	Current Carrying Capacity	According to DIN VDE 0298 part 4
<b>THERMAL</b>	Fully flexible operation	- 25 °C
	Fixed installation	- 40 °C
	Maximum permissible operating temperature of the conductor	90 °C
	Short-circuit temperature of the conductor	250 °C
<b>MECHANICAL</b>	Tensile load	Up to 20 N/mm <sup>2</sup>
	Minimum bending radii	According to DIN VDE 0298 part 3
	Reeling operation	No restriction. Consult the manufacturer
	Festoon systems	Up to 240 m/min
<b>CHEMICAL</b>	Resistance to oil	Resistance to oil According to VDE / IEC standard
	Weather resistance	Unrestricted use outdoor and indoor, UV resistant, moisture resistant.



### PANZERLITE 0.6/1 kV

Polyurethane  
double sheathed  
cables

## TABLE 1 - PANZERLITE 0.6/1 kV

VERTICAL APPLICATION AND HIGH TENSILE LOAD

N. OF CORES AND NOMINAL SECTION (N·MM <sup>2</sup> )	CONDUCTOR		OVERALL DIAMETER		NET WEIGHT APPROX. KG/KM	MAXIMUM PERMISSIBLE TENSILE FORCE N	LAID STRAIGHT A	CURRENT CARRYING CAPACITY AT 30 °C*					SHORT CIRCUIT CURRENT 80 °C TO 200 °C KA
	D.C. RESIST. AT 20 °C OHM/KM	NOM. DIAM. MM	MIN. MM	MAX. MM				SUSPENDED IN FREE AIR A	SPIRAL OR 1 LAYER A	2 LAYER A	3 LAYER A		
18x2.5	7,98	2,2	20,5	23,0	805	2000	30	32	24	18	15	0,32	
24x2.5	7,98	2,2	25,0	28,0	1070	3000	30	32	24	18	15	0,32	
30x2.5	7,98	2,2	28,5	31,5	1340	3000	30	32	24	18	15	0,32	
37x2.5	7,98	2,2	29,5	32,5	1540	4000	30	32	24	18	15	0,32	
44x2.5	7,98	2,2	32,5	35,5	1780	4000	30	32	24	18	15	0,32	
50x2.5	7,98	2,2	34,5	38,0	2040	4000	30	32	24	18	15	0,32	
54x2.5	7,98	2,2	36,0	39,0	2275	4000	30	32	24	18	15	0,32	

\*Tabulated values are valid up to three loaded conductors with or without earth.  
Derating factor shall be used for multicore cables depending on loaded conductors. See page 45.

Other sizes or configurations are available on specific request.