

Uo/U = 0,6/1 kV

According to DIN VDE 0298 part 3

Um = 1,2 kV

No restriction. Consult the manufacturer

Control cables for vertical application

Cable type

PANZERLITE 0.6/1 kV

Polyurethane double sheathed cables

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:

. lighter weight . excellent flexibility

. small dimension

. high operating speed (up to 240m/1') . excellent mechanical performances

Construction

Conductor:	Plain copper conductor, extra flexible better than cl. 6 IEC 60228							
	Specially designed for mobile application							
Insulation:	Thin thickness made of special tecnopolymer							
	Special compound with improved electrical and mechanical characteristics							
Cores identification:	White with printed numbers							
Central strainer:	Made of aramidic yarns							
	To be used as support element							
Laying-up:	Short lay length for better flexibility							
	In maximum 3 layers							
Separation (if any):	Tape(s)							
Inner sheath:	Made of special polyurethane							
	A combination of high flexibility characteristics with improved abrasion and tear resistance characteristics							
Antitwisting protection:	Textile braid of synthetic yarns							
	Firmly bonded between inner and outer sheath							
Outer sheath:	Made of Yellow special polyurethane							
	A combination of high flexibility characteristics with improved abrasion and tear resistance characteristics							
Marking:	PALAZZO - PANZERLITE 0,6/1 kV n. of cores x cross section							

Electrical

		AC test voltage over 5 minutes	2,5 kV
		Current Carrying Capacity	According to DIN VDE 0298 part 4
	Thermal	Fully flexible operation	- 30 °C
		Fixed installation	- 40 °C
8		Maximum permissible operating temperature of the conductor	90 °C
2)		Short-circuit temperature of the conductor	200 °C
3			
18	Mechanical	Tensile load	from 2000 N to 4000 N

Maximum permissible operating voltage in AC systems

Rated voltage

Minimum bending radii

Reeling operation

		if speed exceeds 240 m/min
Chemical	Resistance to oil	According to VDE / IEC standard
	Weather resistance	Unrestricted use outdoor and indo

oor, UV resistant, moisture resistant,





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Table 1: PANZERLITE 0,6/1 kV

N. of cores and nominal section (n·mm²)		ductor nom. diam. mm	Overall min. mm	diameter max. mm	Net weight approx. kg/km	Maximum permissible tensile force N		Current carry Suspended in free air A	Spiral or	Ĺ		Short circuit current 80 ° to 200 °C kA·1 sec.
18x2,5	7,98	2,2	20,5	23,0	805	2.000	30	32	24	18	15	0,32
24x2,5	7,98	2,2	25,0	28,0	1.070	3.000	30	32	24	18	15	0,32
30x2,5	7,98	2,2	28,5	31,5	1.340	3.000	30	32	24	18	15	0,32
37x2,5	7,98	2,2	29,5	32,5	1.540	3.000	30	32	24	18	15	0,32
44x2,5	7,98	2,2	32,5	35,5	1.780	4.000	30	32	24	18	15	0,32
50x2,5	7,98	2,2	34,5	38,0	2.040	4.000	30	32	24	18	15	0,32
54x2.5	7.98	2.2	36.0	39.0	2.275	4.000	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 57.

Other sizes or configurations are available on specific request.