URSUS® V PLUS 0,6/1kV

Aristoncavi specification

1 **PHASE CONDUCTORS**
MATERIAL: tinned copper, extremely flexible
CONSTRUCTION: better than class 5 VDE 0295 (IEC 60228)

2 **INSULATION**
MATERIAL: special compound developed to have higher tensile load (more than 30MPa), high stability and excellent thermal resistance

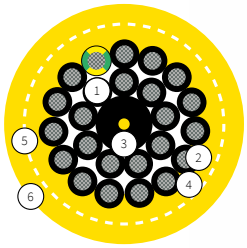
3 **CENTRAL FILLER**
MATERIAL: rubber compound on Kevlar® tensile strenght element, to increase max cable permissible tensile force and against whiplash

CORE ARRANGEMENT
Made by untwisting technology in order to avoid internal stress in the core arrangement, with a laid-up geometry for better torsion resistance

4 **INNER SHEATH**
MATERIAL: CR rubber compound in compliance with VDE

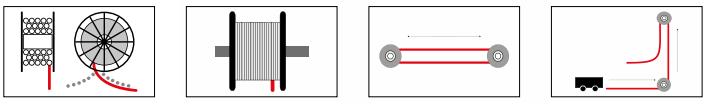
5 **ANTITWISTING ELEMENT**
MATERIAL: polyester braid between inner and outer sheath

6 **OUTER SHEATH**
MATERIAL: CR rubber compound in compliance with VDE
COLOUR: yellow





APPLICATION



Heavy duty flexible cable designed for vertical reeling application like for spreaders; it is also used in other mobile application as in cable winding reels for harbour cranes, container cranes, conveyors, handling machines and other applications under high mechanical stresses.

ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	0,6/1
Test voltage	kV	4
Max AC voltage	kV	0,7/1,2
Max DC voltage	kV	1,8
Current rating	A	According to VDE 0298 Part 4

THERMAL WORKING DATA

Maximum short circuit temperature	°C	200
Maximum working temp. on the conductor	°C	90
Minimum ambient temperature	°C	Mobile condition: - 35 Static condition: - 50

MECHANICAL WORKING DATA

Bending radius	mm	According to VDE 0298 Part 3
Maximum torsional stress	°/m	± 50
Maximum tensile load	N	See table below
Max working speed	m/min	240

CHEMICAL WORKING DATA

Oil resistance	According to IEC 60811-404
Ozone resistance	According to IEC 60811-403
Burning behaviour	According to IEC 60332-1-2
UV resistance	According to ISO 4892-2

VOLTAGE	CORES X CROSS SECTION	CONDUCTOR Ø	MIN OVERALL Ø	MAX OVERALL Ø	APPROX WEIGHT	MAX TENSILE LOAD
kV	Nr x mm^2	mm	mm	mm	kg/km	N
0,6/1	24G2,5	2,1	27,8	28,8	1400	3800
0,6/1	30G2,5	2,1	30,3	31,3	1710	4200
0,6/1	36G2,5	2,1	30,4	31,4	1820	4700
0,6/1	44G2,5	2,1	35,7	36,7	2390	5300
0,6/1	56G2,5	2,1	39,2	40,3	2970	6200

Upon request different core design