URSUS® VS 0,6/1kV

(N)SHTÖU - O/J
Based on DIN VDE 0250 Part 814

1 **PHASE CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 VDE 0295 (IEC 60228)

2 **INSULATION**
MATERIAL: 3GI3 rubber compound, according to VDE 0207 Part 20
THICKNESS: According to VDE 0250 Part 814

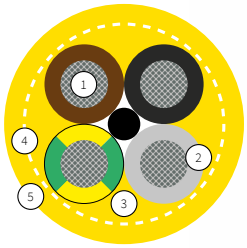
CORES IDENTIFICATION
According to DIN VDE 0293 Part 308 (HD 308 S2)

LAYING-UP
≤ 8 times the laying-up cores diameter

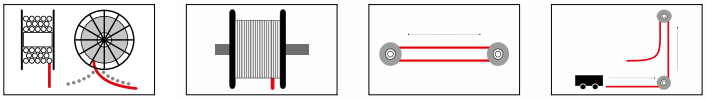
3 **INNER SHEATH**
MATERIAL: special rubber compound 5GM5 quality,
according to VDE 0207 Part 21

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

5 **OUTER SHEATH**
MATERIAL: special rubber compound, at least 5GM5 quality,
according to VDE 0207 Part 21
COLOUR: yellow



APPLICATION



Flexible cable designed for power mobile connections, under very high mechanical stresses (tensile strength and torsion), for heavy duty conditions, abrasion and crushing. The cable is typically used in cable winding reels for harbour cranes, container cranes, conveyors, handling machines for vertical reeling applications.



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	250
Maximum working temp. on the conductor	°C	90
Minimum ambient temperature*	°C	Mobile condition: - 30 Static condition: - 50

* For ambient temperature up to -40 °C in mobile application the cable URSUS VS K is available

MECHANICAL WORKING DATA

Bending radius	mm	According to VDE 0298 Part 3
Maximum torsional stress	°/m	± 50
Maximum tensile load*	N/mm^2	30
Max working speed	m/min	180
Special test		Reeling test

* Referred to the total phase conductors cross section

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



URSUS® VS 0,6/1kV

VOLTAGE	CORES X CROSS SECTION	CONDUCTOR Ø	MIN OVERALL Ø	MAX OVERALL Ø	APPROX WEIGHT	MAX TENSILE LOAD
kV	Nr x mm²	mm	mm	mm	kg/km	N
0,6/1	3G1,5	1,5	13,8	14,8	270	135
0,6/1	3G2,5	1,9	15,3	16,3	330	225
0,6/1	3G4	2,4	17,0	18,0	420	360
0,6/1	3G6	2,9	18,3	19,3	520	540
0,6/1	3G10	3,8	21,4	23,3	750	900
0,6/1	3G16	4,8	23,5	25,4	970	1440
0,6/1	3G25	6,9	28,2	30,2	1450	2250
0,6/1	3G35	7,8	31,6	33,6	1890	3150
0,6/1	3G50	9,3	36,8	38,8	2600	4500
0,6/1	3G70	11,1	40,4	43,3	3340	6300
0,6/1	3G95	12,7	46,3	49,2	4380	8550
0,6/1	3G120	14,5	49,9	52,9	5330	10800
0,6/1	3G150	16,7	55,4	58,4	6700	13500
0,6/1	3G185	17,6	62,6	66,5	8100	16650
0,6/1	3G240	20,6	67,8	70,2	10850	21600
0,6/1	3x35+3G16/3	7,8	31,6	33,6	2100	3150
0,6/1	3x50+3G25/3	9,3	36,8	38,8	2800	4500
0,6/1	3x70+3G35/3	11,1	40,4	43,3	3790	6300
0,6/1	3x95+3G50/3	12,7	46,3	49,2	4710	8550
0,6/1	3x120+3G70/3	14,5	49,9	52,9	5840	10800
0,6/1	3x150+3G70/3	16,7	55,4	58,4	7080	13500
0,6/1	3x185+3G95/3	17,6	62,6	66,5	8940	16650
0,6/1	3x240+3G120/3	20,6	67,8	70,2	11320	21600



VOLTAGE	CORES X CROSS SECTION	CONDUCTOR Ø	MIN OVERALL Ø	MAX OVERALL Ø	APPROX WEIGHT	MAX TENSILE LOAD
kV	Nr x mm²	mm	mm	mm	kg/km	N
0,6/1	4G1,5	1,5	14,6	15,6	300	180
0,6/1	4G2,5	1,9	16,7	17,7	400	300
0,6/1	4G4	2,4	18,2	19,2	500	480
0,6/1	4G6	2,9	19,6	20,6	620	720
0,6/1	4G10	3,8	23,0	24,9	890	1200
0,6/1	4G16	4,8	25,1	27,0	1170	1920
0,6/1	4G25	6,9	32,2	34,2	1900	3000
0,6/1	4G35	7,8	34,4	36,4	2340	4200
0,6/1	4G50	9,3	40,0	42,9	3250	6000
0,6/1	4G70	11,1	44,2	47,1	4180	8400
0,6/1	4G95	12,7	50,6	53,6	5500	11400
0,6/1	4G120	14,5	56,5	59,5	6950	14400
0,6/1	4G150	16,7	62,6	66,5	8570	18000
0,6/1	4G185	17,6	67,4	71,4	10160	22200
0,6/1	5G1,5	1,5	15,5	16,5	350	225
0,6/1	5G2,5	1,9	17,8	18,8	460	375
0,6/1	5G4	2,4	19,4	20,4	580	600
0,6/1	5G6	2,9	21,3	23,2	750	900
0,6/1	5G10	3,8	24,8	26,7	1060	1500
0,6/1	5G16	4,8	27,1	29,0	1410	2400
0,6/1	5G25	6,9	35,0	37,0	2290	3750
0,6/1	5G35	7,8	38,8	40,8	2940	5250
0,6/1	5G50	9,3	43,6	46,5	3940	7500
0,6/1	5G70	11,1	50,0	53,0	5300	10500

