URSUS® PUR HF 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

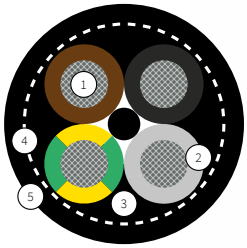
CORES IDENTIFICATION
According to DIN VDE 0293 Part 308 (HD 308 S2)

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

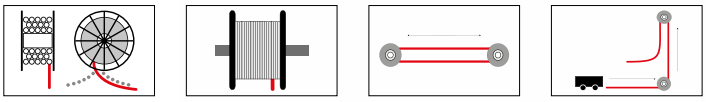
3 **INNER SHEATH**
MATERIAL: halogen free polyurethane

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

OUTER SHEATH
5 MATERIAL: halogen free polyurethane
COLOUR: black



APPLICATION



Flexible cable designed for power and signalling mobile connections, under severe 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 and mining and tunnelling equipment. The halogen free polyurethane sheath grants more lightness by retaining the mechanical properties and abrasion resistance.



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: - 40 Static condition: - 50

MECHANICAL WORKING DATA

Bending radius	mm	According to VDE 0298 Part 3
Maximum torsional stress	°/m	± 25
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
Gas emission during combustion	According to IEC 60754-1



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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	3x25+3G16/3	6,9	27,1	27,5	1390	2250
0,6/1	3x35+3G16/3	7,8	29,6	30,0	1740	3150
0,6/1	3x50+3G25/3	9,3	34,6	35,4	2470	4500
0,6/1	3x70+3G35/3	11,1	38,5	39,3	3290	6300
0,6/1	3x95+3G50/3	12,7	42,8	43,6	4090	8550
0,6/1	3x120+3G70/3	14,5	46,7	47,5	5220	10800
0,6/1	3x150+3G70/3	16,7	53,3	54,2	6460	13500
0,6/1	3x185+3G95/3	17,6	56,9	57,8	7720	16650
0,6/1	4G4	2,4	16,5	16,9	380	480
0,6/1	4G6	2,9	18,0	18,4	490	720
0,6/1	4G10	3,8	21,3	21,7	720	1200
0,6/1	4G16	4,8	23,8	24,2	990	1920
0,6/1	4G25	6,9	30,3	31,1	1610	3000
0,6/1	4G35	7,8	33,3	34,1	2090	4200
0,6/1	4G50	9,3	37,9	38,7	2830	6000
0,6/1	4G70	11,1	42,2	43,0	3720	8400
0,6/1	4G95	12,7	47,1	47,9	4770	11400
0,6/1	4G120	14,5	52,4	53,3	6040	14400
0,6/1	4G150	16,7	58,7	59,6	7520	18000



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	5G4	2,4	17,8	18,2	460	600
0,6/1	5G6	2,9	19,4	19,8	590	900
0,6/1	5G10	3,8	23,1	23,5	870	1500
0,6/1	5G16	4,8	25,8	26,2	1200	2400
0,6/1	5G25	6,9	33,1	33,9	1970	3750
0,6/1	5G35	7,8	36,3	37,1	2560	5250
0,6/1	4G1,5	1,5	11,5	11,9	170	2180
0,6/1	5G1,5	1,5	12,1	12,5	190	2225
0,6/1	7G1,5	1,5	13,9	14,3	260	2315
0,6/1	12G1,5	1,5	17,7	18,1	450	2540
0,6/1	18G1,5	1,5	18,1	18,5	480	2810
0,6/1	24G1,5	1,5	20,7	21,1	630	3080
0,6/1	30G1,5	1,5	22,7	23,1	770	3350
0,6/1	36G1,5	1,5	23,1	23,5	800	3620
0,6/1	42G1,5	1,5	24,6	25,0	910	3890
0,6/1	4G2,5	1,9	12,7	13,1	220	2300
0,6/1	5G2,5	1,9	13,5	13,9	260	2375
0,6/1	7G2,5	1,9	15,6	16	360	2525
0,6/1	12G2,5	1,9	20,2	20,6	590	2900
0,6/1	18G2,5	1,9	20,6	21,0	660	3350
0,6/1	24G2,5	1,9	23,8	24,2	910	3800
0,6/1	30G2,5	1,9	26,2	26,6	1120	4250
0,6/1	36G2,5	1,9	26,6	27,0	1170	4700
0,6/1	42G2,5	1,9	29,1	29,5	1390	5150

