URSUS® MT PLUS 3,6/6 ÷ 12/20 kV

(N)TSCGEWÖU

Based on DIN VDE 0250 Part 813

1 **PHASE CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 VDE 0295 (IEC 60228),
special construction for higher flexibility
INSULATION MATERIAL: 3GI3 quality rubber compound,
according to VDE 0207 Part 20
SEMICONDUCTIVE LAYERS: semiconductive tape over the conductor and inner and outer semiconductive rubber layer on the insulation

2 **EARTH CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 VDE 0295 (IEC 60228),
special construction for higher flexibility
COVERING MATERIAL: semiconductive layer

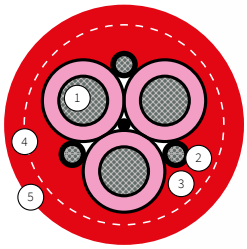
CENTRAL FILLER
MATERIAL: semiconductive compound on textile polyester support

CORES ASSEMBLY
ASSEMBLY: twisted cores with earth conductor split into 3 parts
SEPARATOR ON THE TWISTED ASSEMBLY: semiconductive tape wound on the twisted cores

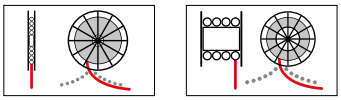
3 **INNER SHEATH**
MATERIAL: Gm1b/5GM5 quality rubber compound,
according to VDE 0207 Part 21

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

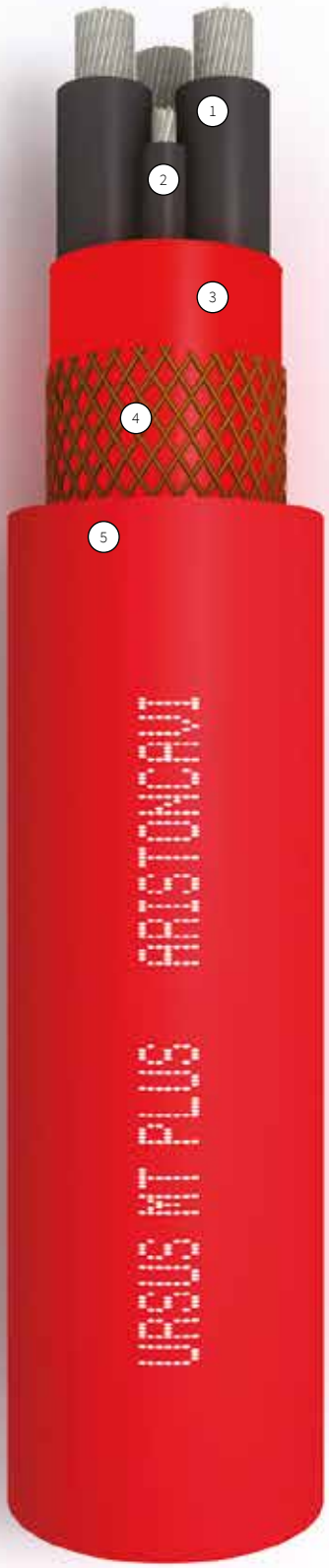
5 **OUTER SHEATH**
MATERIAL: 5GM5 quality rubber compound, according to VDE 0207 Part 21
COLOUR: red



APPLICATION



Flexible reeling cable with reduced weight and dimensions (URSUS MT PLUS) for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Also usable for reeling application in underground and opencast mining.



ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	3,6/6	6/10	8,7/15	12/20
Test voltage	kV	11	17	24	29
Max AC voltage	kV	4,2/7,2	6,9/12	10,4/18	13,9/24
Electrical field control		Inner and outer semiconductive layers extruded in a single-pass with the insulation			
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

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	120
Special test		Reeling test

* Referred to the total phase conductors cross section.
Upon request it's available the KN version with improved mechanical characteristics designed for ASC's and ARMG's

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



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VOLTAGE kV	CORES X CROSS SECTION Nr x mm²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
3,6/6	3x25 + 3x25/3	6,9	39,2	40,3	2380	1500
3,6/6	3x35 + 3x25/3	7,8	42,9	44,6	2920	2100
3,6/6	3x50 + 3x25/3	9,3	46	47,7	3520	3000
3,6/6	3x70 + 3x35/3	11,1	49,8	51,6	4430	4200
3,6/6	3x95 + 3x50/3	12,7	55,8	57,6	5580	5700
3,6/6	3x120 + 3x70/3	14,5	59,6	61,4	6770	7200
3,6/6	3x150 + 3x70/3	16,7	66	68,3	8260	9000
3,6/6	3x185 + 3x95/3	17,6	67,9	70,2	9400	11100
6/10	3x25 + 3x25/3	6,9	39,2	40,3	2380	1500
6/10	3x35 + 3x25/3	7,8	42,9	44,6	2920	2100
6/10	3x50 + 3x25/3	9,3	46	47,7	3520	3000
6/10	3x70 + 3x35/3	11,1	49,8	51,6	4430	4200
6/10	3x95 + 3x50/3	12,7	55,8	57,6	5640	5700
6/10	3x120 + 3x70/3	14,5	59,6	61,4	6830	7200
6/10	3x150 + 3x70/3	16,7	66	68,3	8320	9000
6/10	3x185 + 3x95/3	17,6	67,9	70,2	9500	11100

The orginal URSUS® MT product range is still available upon request.



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
8,7/15	3x25 + 3x25/3	6,9	44,7	46,4	2860	1500
8,7/15	3x35 + 3x25/3	7,8	46,2	47,9	3210	2100
8,7/15	3x50 + 3x25/3	9,3	49,4	51,2	3830	3000
8,7/15	3x70 + 3x35/3	11,1	55	56,8	5000	4200
8,7/15	3x95 + 3x50/3	12,7	58,4	60,2	5870	5700
8,7/15	3x120 + 3x70/3	14,5	63,9	66,2	7370	7200
8,7/15	3x150 + 3x70/3	16,7	68,5	70,9	8590	9000
8,7/15	3x185 + 3x95/3	17,6	70,6	73	9750	11100
12/20	3x25 + 3x25/3	6,9	46,4	48,1	3080	1500
12/20	3x35 + 3x25/3	7,8	48,8	50,6	3460	2100
12/20	3x50 + 3x25/3	9,3	53,7	55,5	4310	3000
12/20	3x70 + 3x35/3	11,1	57,5	59,3	5310	4200
12/20	3x95 + 3x50/3	12,7	60,8	63,1	6180	5700
12/20	3x120 + 3x70/3	14,5	66,4	68,7	7730	7200
12/20	3x150 + 3x70/3	16,7	71	73,4	8970	9000

