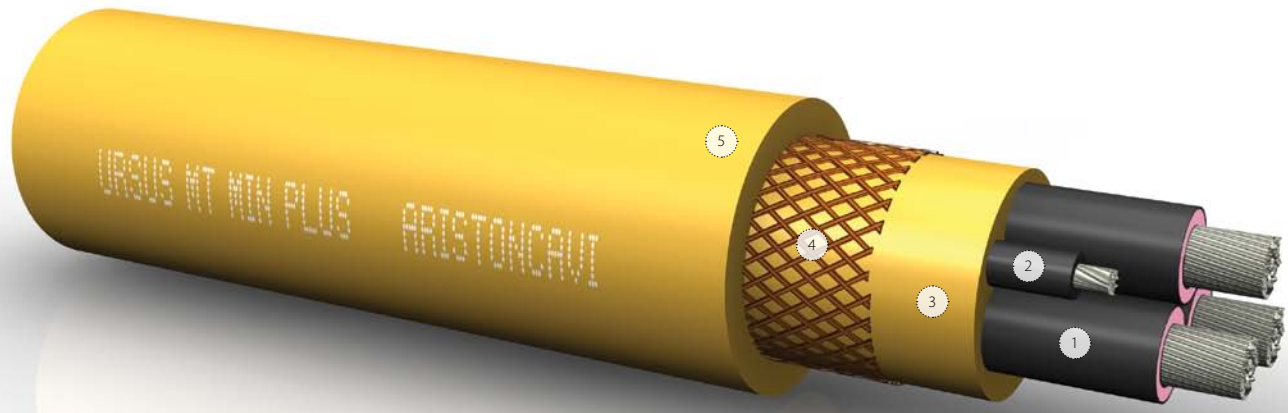
URSUS® MT MIN PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 813



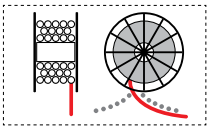
Cable construction

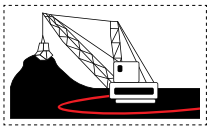
1 **Phase Conductors**	Conductor material	Tinned copper
	Conductor construction	Class 5 VDE 0295 (IEC 60228)*
	Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
	Semiconductive layers	Semiconductive tape over the conductor and inner and outer semiconductive rubber layer on the insulation
2 **Earth Conductors**	Conductor material	Tinned copper
	Conductor construction	Class 5 VDE 0295 (IEC 60228)*
	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
	Thickness	According to VDE 0250 Part 813 (table 2)
4 **Antitwisting element**	Material	Polyester braid between inner and outer sheath
5 **Outer Sheath**	Material	Special abrasion resistant rubber compound 5GM5 quality, according to VDE 0207 Part 21
	Thickness	According to VDE 0250 Part 813 (table 2)
	Colour	Yellow

* Special construction for higher flexibility



Main applications





Applications Flexible cable for energy supply of heavy mobile equipment such as drag lines, shovels, dredges, drills, under extreme mechanical stresses and abrasion during trailing operation in opencast mine.

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
Ambient temperature: mobile condition	°C	- 25 to + 80
Ambient temperature: static condition	°C	- 40 to + 80

Mechanical working data

Bending radius	mm	According to VDE 0298 Part 3
Maximum torsional stress	°/m	± 25
Maximum tensile load*	N/mm^2	20
Special test		Reeling test

* Referred to the total phase conductors cross section

Chemical working data

Burning behaviour	Flame retardant according to IEC 60332-1-2
Resistance to oil	According to IEC 60811-2-1
Ozone resistance	According to IEC 60811-2-1
Weather resistance	For indoor and outdoor application

URSUS® MT MIN PLUS 3,6/6 ÷ 12/20 kV

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
3,6/6	3x25 + 3x25/3	6,8	39,9	41,6	2390	1500
3,6/6	3x35 + 3x25/3	7,8	42,9	44,6	2970	2100
3,6/6	3x50 + 3x25/3	9,4	46,0	47,7	3600	3000
3,6/6	3x70 + 3x35/3	11,2	49,8	51,6	4600	4200
3,6/6	3x95 + 3x50/3	12,7	55,8	57,6	5800	5700
3,6/6	3x120 + 3x70/3	14,4	59,6	61,4	7070	7200
3,6/6	3x150 + 3x70/3	16,3	66,0	68,3	8870	9000
3,6/6	3x185 + 3x95/3	17,6	67,9	70,2	9980	11100
6/10	3x25 + 3x25/3	6,8	39,9	42,2	2430	1500
6/10	3x35 + 3x25/3	7,8	42,9	45,2	3010	2100
6/10	3x50 + 3x25/3	9,4	46,0	48,3	3640	3000
6/10	3x70 + 3x35/3	11,2	49,8	52,2	4640	4200
6/10	3x95 + 3x50/3	12,7	55,8	58,2	5900	5700
6/10	3x120 + 3x70/3	14,4	59,6	62,1	7160	7200
6/10	3x150 + 3x70/3	16,3	66,0	69,0	8970	9000
6/10	3x185 + 3x95/3	17,6	67,9	70,9	10120	11100

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
8,7/15	3x25 + 3x25/3	6,8	44,7	46,4	2800	1500
8,7/15	3x35 + 3x25/3	7,8	46,2	47,9	3160	2100
8,7/15	3x50 + 3x25/3	9,4	49,4	51,2	3960	3000
8,7/15	3x70 + 3x35/3	11,2	55,0	56,8	5020	4200
8,7/15	3x95 + 3x50/3	12,7	58,4	60,2	5840	5700
8,7/15	3x120 + 3x70/3	14,4	63,9	66,2	7420	7200
8,7/15	3x150+3x70/3	16,3	68,5	70,9	8620	9000
12/20	3x25 + 3x25/3	6,8	47,3	49,0	3340	1500
12/20	3x35 + 3x25/3	7,8	48,8	50,6	3690	2100
12/20	3x50 + 3x25/3	9,4	53,7	55,5	4640	3000
12/20	3x70 + 3x35/3	11,2	57,5	59,3	5720	4200
12/20	3x95 + 3x50/3	12,7	60,8	63,1	6660	5700
12/20	3x120 + 3x70/3	14,4	66,4	68,7	8200	7200