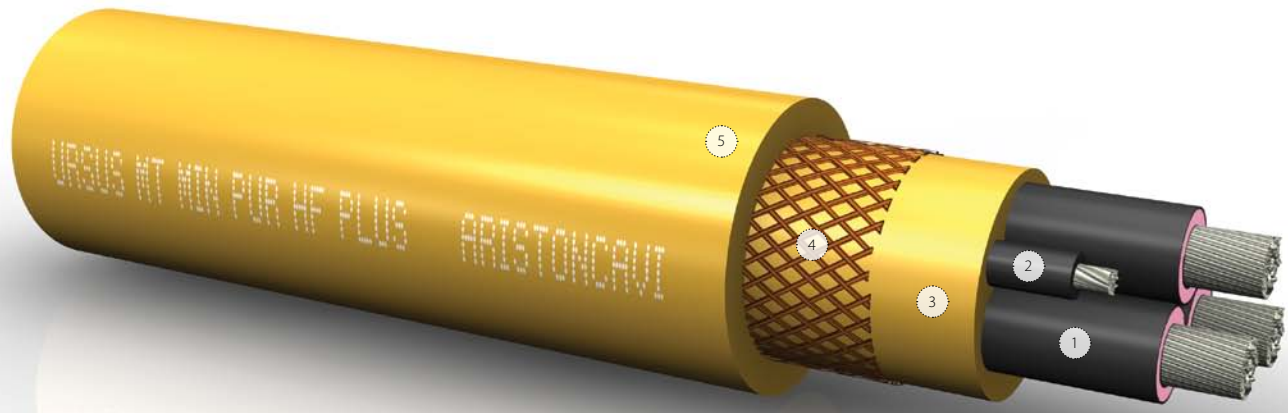
URSUS® MT MIN PUR HF PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 813



Cable construction

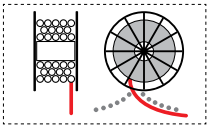
1	**Phase Conductors**	Conductor material	Tinned copper
		Conductor construction	Class 5 VDE 0295 (IEC 60228)*
		Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
		Semiconductive layers	Semiconductive tape over the conductor and inner and outer semiconductive rubber layer 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	Halogen free polyurethane
4	**Antitwisting element**	Material	Polyester braid between inner and outer sheath
5	**Outer Sheath**	Material	Halogen free polyurethane
		Colour	Yellow

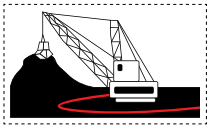
* Special construction for higher flexibility

Upon request:
URSUS® MT MIN PUR HF RFB special version with reflecting tape and transparent outer sheath, without textile braid.



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. Halogen free polyurethane sheathed version.

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	- 50 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 Halogen free according to IEC 60754-1 and IEC 60754-2
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 PUR HF 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	37,4	38,6	2280	1500
3,6/6	3x35 + 3x25/3	7,8	39,0	40,2	2630	2100
3,6/6	3x50 + 3x25/3	9,4	42,0	43,7	3230	3000
3,6/6	3x70 + 3x35/3	11,2	45,8	47,5	4160	4200
3,6/6	3x95 + 3x50/3	12,7	50,0	51,8	5080	5700
3,6/6	3x120 + 3x70/3	14,4	53,8	55,6	6280	7200
3,6/6	3x150 + 3x70/3	16,3	59,3	61,1	7570	9000
3,6/6	3X185 + 3X95/3	17,6	61,1	63,4	8740	11100
6/10	3x25 + 3x25/3	6,8	37,4	39,2	2320	1500
6/10	3x35 + 3x25/3	7,8	39,0	40,8	2670	2100
6/10	3x50 + 3x25/3	9,4	42,0	44,3	3270	3000
6/10	3x70 + 3x35/3	11,2	45,8	48,1	4200	4200
6/10	3x95 + 3x50/3	12,7	50,0	52,4	5120	5700
6/10	3x120 + 3x70/3	14,4	53,8	56,3	6320	7200
6/10	3x150 + 3x70/3	16,3	59,3	61,8	7610	9000
6/10	3x185 + 3x95/3	17,6	61,1	64,1	8780	11100

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	6,8	40,7	42,4	2580	1500
8,7/15	3x35 + 3x25/3	7,8	42,2	43,9	2930	2100
8,7/15	3x50 + 3x25/3	9,4	45,4	47,1	3560	3000
8,7/15	3x70 + 3x35/3	11,2	49,2	51,0	4510	4200
8,7/15	3x95 + 3x50/3	12,7	52,6	54,4	5360	5700
8,7/15	3x120 + 3x70/3	14,4	57,2	59,0	6690	7200
8,7/15	3x150 + 3x70/3	16,3	61,7	64,0	7910	9000
8,7/15	3x185 + 3x95/3	17,6	63,8	66,1	9110	11100
12/20	3x25 + 3x25/3	6,8	43,3	45,0	2810	1500
12/20	3x35 + 3x25/3	7,8	44,8	46,5	3160	2100
12/20	3x50 + 3x25/3	9,4	47,9	49,6	3810	3000
12/20	3x70 + 3x35/3	11,2	51,7	53,5	4780	4200
12/20	3x95 + 3x50/3	12,7	55,1	56,9	5660	5700
12/20	3x120 + 3x70/3	14,4	59,6	61,9	7020	7200
12/20	3x150 + 3x70/3	16,3	64,2	66,5	8250	9000
12/20	3x185 + 3x95/3	17,6	66,3	68,6	9460	11100