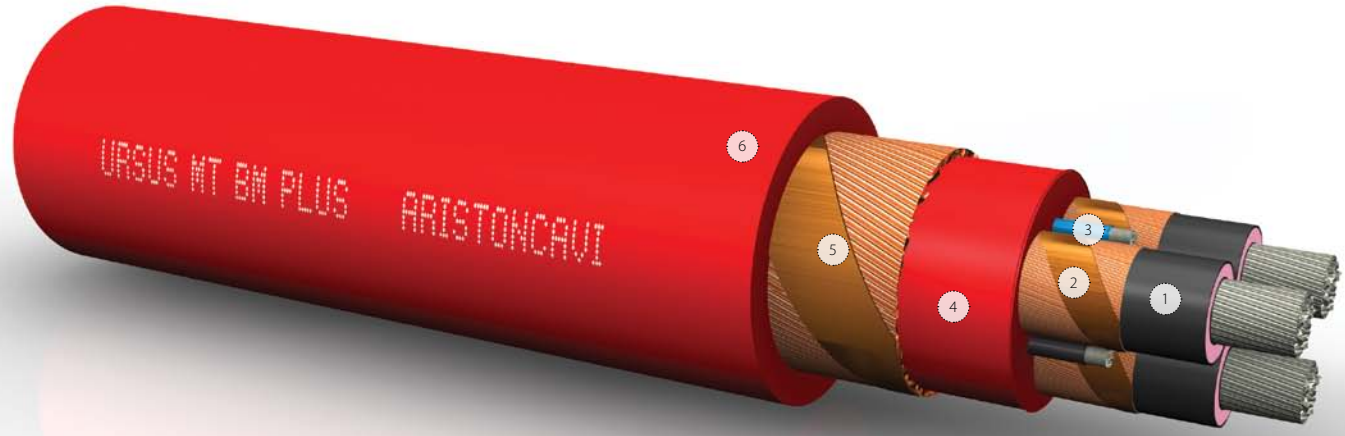
URSUS® MT BM PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 813

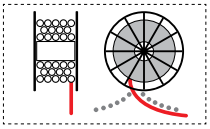


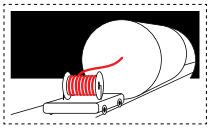
Cable construction

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	**Protec. Earth Conductors**	Material	Bare copper
		Construction	Individual copper wire screen
3	**Control Conductors**	Nominal cross section	2,5 mm^2
		Conductor material	Tinned copper
		Conductor construction	Class 5 VDE 0295 (IEC 60228)
		Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
	Central Filler	Material	Semiconductive compound on textile polyester support
	Cores Assembly	Assembly	Twisted cores
		Separator on the twisted assembly	TNT tape wound on the twisted cores
4	**Inner Sheath**	Material	5GM5 quality rubber compound, according to VDE 0207 Part 21
		Thickness	According to VDE 0250 Part 813 (table 2)
5	**Monitoring Conductor**	Material	Copper wire
		Assembly	Screen over the inner sheath
6	**Outer Sheath**	Material	5GM5 quality rubber compound, according to VDE 0207 Part 21
		Thickness	According to VDE 0250 Part 813 (table 2)
		Colour	Red



Main applications





Applications Flexible cable suitable for reeling drum of tunnel boring machines and generally for tunnel application.

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 and the screen over every conductor			
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	15

* 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 BM 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 + 3x25/3E + 3x2,5ST + ÜL	6,8	45,4	48,8	3010	1125
3,6/6	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	46,9	50,4	3390	1575
3,6/6	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	50,0	53,6	4050	2250
3,6/6	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	55,6	59,4	5260	3150
3,6/6	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	59,9	63,9	6460	4275
3,6/6	3x120 + 3x70/3E + 3x2,5ST + ÜL	14,4	64,0	68,4	7820	5400
3,6/6	3x150 + 3x70/3E + 3x2,5ST + ÜL	16,3	70,4	75,0	9430	6750
6/10	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,8	45,4	49,4	3050	1125
6/10	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	46,9	51,0	3430	1575
6/10	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	50,0	54,2	4090	2250
6/10	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	55,6	60,0	5300	3150
6/10	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	59,9	64,5	6500	4275
6/10	3x120 + 3x70/3E + 3x2,5ST + ÜL	14,4	64,0	69,1	7860	5400
6/10	3x150 + 3x70/3E + 3x2,5ST + ÜL	16,3	70,4	75,7	9470	6750

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 + 3x25/3E + 3x2,5ST + ÜL	6,8	48,0	51,5	3590	1125
8,7/15	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	49,5	53,1	3990	1575
8,7/15	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	54,4	58,2	4880	2250
8,7/15	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	58,2	62,2	5950	3150
8,7/15	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	61,4	65,7	7030	4275
8,7/15	3x120 + 3x70/3E + 3x2,5ST + ÜL	14,4	67,4	71,9	8690	5400
12/20	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,8	50,5	54,1	3860	1125
12/20	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	52,3	56,0	4260	1575
12/20	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	57,5	61,4	5190	2250
12/20	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	61,0	65,3	6280	3150
12/20	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	66,4	70,9	7640	4275
12/20	3x120 + 3x70/3E + 3x2,5ST + ÜL	14,4	70,5	75,2	9050	5400