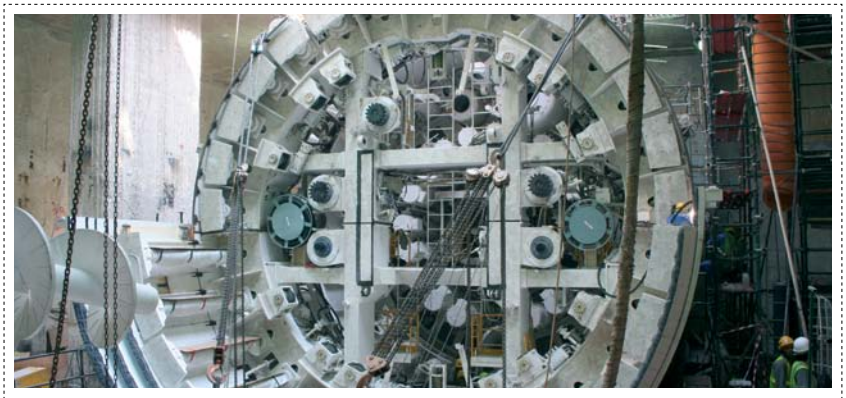
URSUS® MT BM PUR HF PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 813

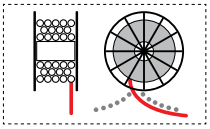


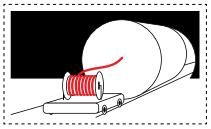
Cable construction

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	**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	Halogen free compound
		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	Halogen free polyurethane
		Thickness	According to VDE 0250 Part 813 (table 2)
		Colour	Black



Main applications





Applications Flexible cable suitable for reeling drum of tunnel boring machines and generally for tunnel application. 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 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	- 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	15

* 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

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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
3,6/6	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,8	45,4	48,8	2960	1125
3,6/6	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	46,9	50,4	3340	1575
3,6/6	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	50,0	53,6	3990	2250
3,6/6	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	55,6	59,4	5180	3150
3,6/6	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	59,9	63,9	6370	4275
3,6/6	3x120 + 3x70/3E + 3x2,5ST + ÜL	14,4	64,0	68,4	7730	5400
6/10	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,8	45,4	49,4	3000	1125
6/10	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	46,9	51,0	3380	1575
6/10	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	50,0	54,2	4030	2250
6/10	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	55,6	60,0	5220	3150
6/10	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	59,9	64,5	6410	4275
6/10	3x120 + 3x70/3E + 3x2,5ST + ÜL	14,4	64,0	69,1	7770	5400

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 + 3x25/3E + 3x2,5ST + ÜL	6,8	48,0	51,5	3540	1125
8,7/15	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	49,5	53,1	3930	1575
8,7/15	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	54,4	58,2	4810	2250
8,7/15	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	58,2	62,2	5880	3150
8,7/15	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	61,4	65,7	6950	4275
12/20	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,8	50,5	54,1	3800	1125
12/20	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,8	52,3	56,0	4190	1575
12/20	3x50 + 3x25/3E + 3x2,5ST + ÜL	9,4	57,5	61,4	5120	2250
12/20	3x70 + 3x35/3E + 3x2,5ST + ÜL	11,2	61,0	65,3	6200	3150
12/20	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,7	66,4	70,9	7550	4275