URSUS® MT TUNNEL V PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 605

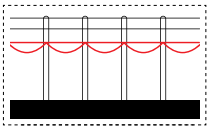


Cable construction

1	**Phase Conductors**	Conductor material	Bare copper
		Conductor construction	Class 5, according to 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	Tinner copper
		Conductor construction	Class 5, according to VDE 0295 (IEC 60228)
		Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
	Central Filler	Material	Rubber compound on textile polyester support
	Cores Assembly	Assembly	Twisted cores
		Separator on the twisted assembly	TNT tape wound on the twisted cores
4	**First Inner Sheath**	Sheath material	PVC, YM5 quality
5	**Monitoring Conductor**	Material	Copper wire
		Assembly	Screen over the first inner sheath
6	**Second Inner Sheath**	Material	PVC, YM5 quality
7	**Armor**	Material	Steel wire braid
		Assembly	Braid over the second inner sheath
8	**Outer Sheath**	Material	PVC, YM5 quality
		Colour	Red



Main applications



Applications Flexible cable for energy supply of MV equipment, in tunnelling and underground mining applications, according to VDE 0250 Part 605 Standard, as far as applicable.

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	+ 5 to + 80
Ambient temperature: static condition	°C	- 40 to + 80

Mechanical working data

Bending radius	mm	According to VDE 0298 Part 3
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
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	6,1	47,2	52,1	4160	1125
3,6/6	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,2	49,0	54,0	4610	1575
3,6/6	3x50 + 3x25/3E + 3x2,5ST + ÜL	8,9	52,5	57,8	5340	2250
3,6/6	3x70 + 3x35/3E + 3x2,5ST + ÜL	10,6	56,1	61,6	6410	3150
3,6/6	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,3	60,3	66,2	7650	4275
3,6/6	3x120 + 3x70/3E + 3x2,5ST + ÜL	13,8	63,8	70,0	9040	5400
3,6/6	3x150 + 3x70/3E + 3x2,5ST + ÜL	15,5	67,2	73,7	10190	6750
6/10	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,1	47,2	52,7	4200	1125
6/10	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,2	49,0	54,6	4650	1575
6/10	3x50 + 3x25/3E + 3x2,5ST + ÜL	8,9	52,5	58,4	5380	2250
6/10	3x70 + 3x35/3E + 3x2,5ST + ÜL	10,6	56,1	62,2	6450	3150
6/10	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,3	60,3	66,8	7690	4275
6/10	3x120 + 3x70/3E + 3x2,5ST + ÜL	13,8	63,8	70,7	9080	5400
6/10	3x150 + 3x70/3E + 3x2,5ST + ÜL	15,5	67,2	74,4	10230	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	6,1	50,5	55,6	4530	1125
8,7/15	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,2	52,3	57,6	5000	1575
8,7/15	3x50 + 3x25/3E + 3x2,5ST + ÜL	8,9	55,8	61,3	5740	2250
8,7/15	3x70 + 3x35/3E + 3x2,5ST + ÜL	10,6	59,3	65,2	6840	3150
8,7/15	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,3	62,8	68,9	8020	4275
8,7/15	3x120 + 3x70/3E + 3x2,5ST + ÜL	13,8	66,2	72,6	9270	5400
12/20	3x25 + 3x25/3E + 3x2,5ST + ÜL	6,1	52,9	58,2	4820	1125
12/20	3x35 + 3x25/3E + 3x2,5ST + ÜL	7,2	54,7	60,2	5290	1575
12/20	3x50 + 3x25/3E + 3x2,5ST + ÜL	8,9	58,3	64,0	6120	2250
12/20	3x70 + 3x35/3E + 3x2,5ST + ÜL	10,6	61,7	67,8	7210	3150
12/20	3x95 + 3x50/3E + 3x2,5ST + ÜL	12,3	65,2	71,5	8410	4275
12/20	3x120 + 3x70/3E + 3x2,5ST + ÜL	13,8	68,7	75,3	9700	5400