URSUS® MT MIN F-E PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 813

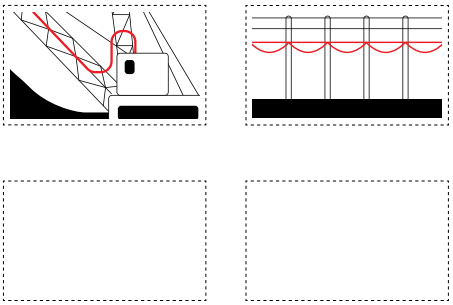


Cable construction

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
	Central Filler	Material	Rubber compound on textile polyester support
	Cores Assembly	Assembly	Twisted cores
		Separator on the twisted assembly	Semiconductive tape wound on the twisted cores
3	**Inner Sheath**	Material	Rubber compound GM1b quality, according to VDE 0207 Part 21
		Thickness	According to VDE 0250 Part 813 (table 2)
4	**Outer Sheath**	Material	Rubber compound 5GM3 quality, according to VDE 0207 Part 21
		Thickness	According to VDE 0250 Part 813 (table 2)
		Colour	Red



Main applications



Applications Flexible cable for fixed energy distribution lines in mines and alongside material handling equipment.

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: 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
Resistance to oil	According to IEC 60811-2-1
Ozone resistance	According to IEC 60811-2-1
Behaviour in water	According to HD22.16
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	6,8	43,9	45,6	2870	1125
3,6/6	3x35 + 3x25/3E	7,8	45,4	47,1	3230	1575
3,6/6	3x50 + 3x25/3E	9,4	48,5	50,3	3860	2250
3,6/6	3x70 + 3x35/3E	11,2	54,1	55,9	5010	3150
3,6/6	3x95 + 3x50/3E	12,7	58,4	60,2	6150	4275
3,6/6	3x120 + 3x70/3E	14,4	62,5	64,8	7450	5400
3,6/6	3x150 + 3x70/3E	16,3	68,9	71,3	8980	6750
3,6/6	3x185 + 3x95/3E	17,6	71,9	74,3	10290	8325
6/10	3x25 + 3x25/3E	6,8	43,9	46,2	2910	1125
6/10	3x35 + 3x25/3E	7,8	45,4	47,7	3270	1575
6/10	3x50 + 3x25/3E	9,4	48,5	50,9	3900	2250
6/10	3x70 + 3x35/3E	11,2	54,1	56,5	5050	3150
6/10	3x95 + 3x50/3E	12,7	58,4	60,8	6190	4275
6/10	3x120 + 3x70/3E	14,4	62,5	65,5	7490	5400
6/10	3x150 + 3x70/3E	16,3	68,9	72,0	9020	6750
6/10	3x185 + 3x95/3E	17,6	71,9	75,0	10330	8325

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	6,8	47,3	49,0	3200	1125
8,7/15	3x35 + 3x25/3E	7,8	48,8	50,6	3570	1575
8,7/15	3x50 + 3x25/3E	9,4	53,7	55,5	4440	2250
8,7/15	3x70 + 3x35/3E	11,2	57,5	59,3	5410	3150
8,7/15	3x95 + 3x50/3E	12,7	60,8	63,1	6480	4275
8,7/15	3x120 + 3x70/3E	14,4	66,8	69,1	8060	5400
8,7/15	3x150+3x70/3E	16,3	71,5	73,9	9370	6750
12/20	3x25 + 3x25/3E	6,8	49,8	51,6	3450	1125
12/20	3x35 + 3x25/3E	7,8	51,3	53,1	3810	1575
12/20	3x50 + 3x25/3E	9,4	56,3	58,1	4740	2250
12/20	3x70 + 3x35/3E	11,2	60,1	61,9	5730	3150
12/20	3x95 + 3x50/3E	12,7	63,3	65,6	6810	4275
12/20	3x120 + 3x70/3E	14,4	69,3	71,7	8420	5400