URSUS® MT MIN F PLUS 3,6/6 ÷ 12/20 kV

Based on DIN VDE 0250 Part 813

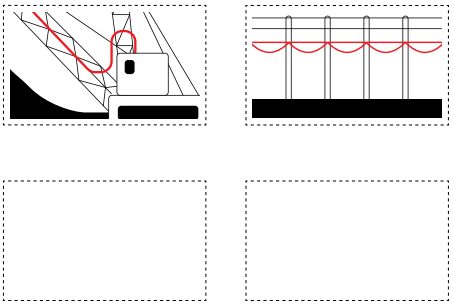


Cable construction

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	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			
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	20

* 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 + 3x25/3	6,8	39,9	41,6	2580	1500
3,6/6	3x35 + 3x25/3	7,8	42,9	44,6	3080	2100
3,6/6	3x50 + 3x25/3	9,4	46,0	47,7	3710	3000
3,6/6	3x70 + 3x35/3	11,2	49,8	51,6	4670	4200
3,6/6	3x95 + 3x50/3	12,7	55,8	57,6	5880	5700
3,6/6	3x120 + 3x70/3	14,4	59,6	61,4	7140	7200
3,6/6	3x150 + 3x70/3	16,3	66,0	68,3	8690	9000
3,6/6	3x185 + 3x95/3	17,6	67,9	70,2	9890	11100
6/10	3x25 + 3x25/3	6,8	39,9	42,2	2620	1500
6/10	3x35 + 3x25/3	7,8	42,9	45,2	3120	2100
6/10	3x50 + 3x25/3	9,4	46,0	48,3	3750	3000
6/10	3x70 + 3x35/3	11,2	49,8	52,2	4710	4200
6/10	3x95 + 3x50/3	12,7	55,8	58,2	5920	5700
6/10	3x120 + 3x70/3	14,4	59,6	62,1	7180	7200
6/10	3x150 + 3x70/3	16,3	66,0	69,0	8730	9000
6/10	3x185 + 3x95/3	17,6	67,9	70,9	9930	11100

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 + 3x25/3	6,8	44,7	46,4	3040	1500
8,7/15	3x35 + 3x25/3	7,8	46,2	47,9	3410	2100
8,7/15	3x50 + 3x25/3	9,4	49,4	51,2	4080	3000
8,7/15	3x70 + 3x35/3	11,2	55,0	56,8	5300	4200
8,7/15	3x95 + 3x50/3	12,7	58,4	60,2	6210	5700
8,7/15	3x120 + 3x70/3	14,4	63,9	66,2	7770	7200
8,7/15	3x150+3x70/3	16,3	68,5	70,9	9070	9000
8,7/15	3x185 + 3x95/3	17,6	70,6	73,0	10300	11100
12/20	3x25 + 3x25/3	6,8	47,3	49,0	3310	1500
12/20	3x35 + 3x25/3	7,8	48,8	50,6	3680	2100
12/20	3x50 + 3x25/3	9,4	53,7	55,5	4580	3000
12/20	3x70 + 3x35/3	11,2	57,5	59,3	5600	4200
12/20	3x95 + 3x50/3	12,7	60,8	63,1	6550	5700
12/20	3x120 + 3x70/3	14,4	66,4	68,7	8130	7200
12/20	3x150 + 3x70/3	16,3	71,0	73,4	9460	9000