URSUS® MT SC PLUS 3,6/6 – 18/30 kV

Based on DIN VDE 0250 Part 813



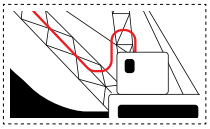
Cable construction

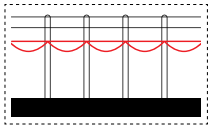
1 **Phase Conductors**	Conductor material	Tinned copper
	Conductor construction	Class 5 VDE 0295 (IEC 60228)
	Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
	Semiconductive layers	Semiconductive tape over the conductor and inner and outer semi-conductive rubber layer on the insulation
2 **Earth Conductor**	Material	Bare copper
	Construction	Copper wire screen
3 **Outer Sheath**	Material	compound 5GM5 quality, according to VDE 0207 Part 21
	Colour	Red

Upon request:
URSUS® MT SCB PLUS version with bare copper braid earth conductor.



Main applications





Applications Medium voltage rubber sheathed flexible cable, single-core, normally used for short-length connections of transformers and switchgears, as well as power cables on mining equipment and alongside conveyor belts.

Electrical working data

Nominal rated voltage U_0 / U	kV	3,6/6	6/10	8,7/15	12/20	18/30
Test voltage	kV	11	17	24	29	43
Max AC voltage	kV	4/7,2	6,9/12	10,4/18	13,9/24	20,8/36
Electrical field control		Inner and outer semiconductive layers extruded in a single pass with the insulation				
Current rating A	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

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

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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	1x25/16	6,8	19,3	20,3	730	375
3,6/6	1x35/16	7,8	20,5	22,4	860	525
3,6/6	1x50/16	9,4	22,0	23,9	1030	750
3,6/6	1x70/16	11,2	23,8	25,7	1260	1050
3,6/6	1x95/16	12,7	26,4	28,3	1550	1425
3,6/6	1x120/16	14,4	28,2	30,2	1840	1800
3,6/6	1x150/25	16,3	30,6	32,6	2280	2250
3,6/6	1x185/25	17,6	32,5	34,5	2630	2775
3,6/6	1x240/25	20,6	35,6	37,6	3270	3600
6/10	1x25/16	6,8	19,3	20,9	770	375
6/10	1x35/16	7,8	20,5	23,0	900	525
6/10	1x50/16	9,4	22,0	24,5	1070	750
6/10	1x70/16	11,2	23,8	26,3	1300	1050
6/10	1x95/16	12,7	26,4	28,9	1590	1425
6/10	1x120/16	14,4	28,2	30,9	1880	1800
6/10	1x150/25	16,3	30,6	33,3	2320	2250
6/10	1x185/25	17,6	32,5	35,2	2670	2775
6/10	1x240/25	20,6	35,6	38,3	3310	3600
8,7/15	1x25/16	6,8	21,2	23,1	820	375
8,7/15	1x35/16	7,8	22,1	24,0	930	525
8,7/15	1x50/16	9,4	23,6	25,5	1110	750
8,7/15	1x70/16	11,2	26,0	27,9	1370	1050
8,7/15	1x95/16	12,7	27,6	29,5	1620	1425
8,7/15	1x120/16	14,4	29,4	31,4	1910	1800
8,7/15	1x150/25	16,3	32,8	34,8	2430	2250
8,7/15	1x185/25	17,6	33,8	35,8	2720	2775
8,7/15	1x240/25	20,6	37,8	39,8	3450	3600

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
12/20	1x25/16	6,8	22,4	24,3	870	375
12/20	1x35/16	7,8	23,1	25,0	970	525
12/20	1x50/16	9,4	25,4	27,3	1200	750
12/20	1x70/16	11,2	27,2	29,1	1440	1050
12/20	1x95/16	12,7	28,8	30,8	1690	1425
12/20	1x120/16	14,4	31,6	33,6	2060	1800
12/20	1x150/25	16,3	34,0	36,0	2510	2250
12/20	1x185/25	17,6	35,0	37,0	2810	2775
12/20	1x240/25	20,6	39,0	41,0	3540	3600
14/25	1x25/16	6,8	24,6	26,5	980	375
14/25	1x35/16	7,8	26,1	28,0	1130	525
14/25	1x50/16	9,4	27,6	29,5	1320	750
14/25	1x70/16	11,2	29,4	31,4	1570	1050
14/25	1x95/16	12,7	32,0	34,0	1900	1425
14/25	1x120/16	14,4	33,8	35,8	2210	1800
14/25	1x150/25	16,3	36,3	38,3	2680	2250
14/25	1x185/25	17,6	38,2	40,2	3060	2775
14/25	1x240/25	20,6	41,1	44,0	3730	3600
18/30	1x25/16	6,8	27,2	29,1	1120	375
18/30	1x35/16	7,8	28,1	30,0	1240	525
18/30	1x50/16	9,4	29,6	31,6	1440	750
18/30	1x70/16	11,2	32,4	34,4	1770	1050
18/30	1x95/16	12,7	34,1	36,1	2040	1425
18/30	1x120/16	14,4	35,9	37,9	2360	1800
18/30	1x150/25	16,3	39,3	41,3	2920	2250
18/30	1x185/25	17,6	40,1	43,0	3230	2775
18/30	1x240/25	20,6	43,1	46,0	3910	3600