

# MINING CABLES

## FLEXIMINING® Type W

EPR/CPE portable power cable, UL C(UL) 2000V, -40°C up to 90°C, FTI, FT5, SUN RES OIL RES 90°C WET or DRY, MSHA



ELETTROTEK KABEL® FLEXIMINING® Type W



### Construction:

<b>Conductor:</b>	finely stranded tinned copper acc. to ASTM B-172 and ICEA S-75-381/NEMA WC58
<b>Separator:</b>	tape separator
<b>Insulation:</b>	rubber EPR compound
<b>Cores color:</b>	acc. to ICEA S-75-381 sec 3.18, 2 cores: black, white 3 cores: black, white, green, 4 cores: black, white, green, red 5 cores: black, white, green, red, orange
<b>Stranding:</b>	in layers + fillers
<b>Wrapping:</b>	binder tape
<b>Outer sheath:</b>	black (similar to RAL 9005), rubber CPE compound

### Resistance:



**Flame test acc. to:**  
c(UL) FT 1, FT 5

### Technical data:

<b>Nominal voltage:</b>	2 kV
<b>Temperature range:</b>	
<i>Fixed laying:</i>	- 40°C up to +90°C
<i>Flexible application:</i>	- 40°C up to +90°C
<b>Min. bending radius:</b>	6 x D

### Features:

UV, ozone, water, weather, oil, grease and chemical resistant  
excellent flexibility  
excellent impact and abrasion resistant  
on request CSA approval  
**acc. to ICEA S-75-381/NEMA WC58**  
**acc. to ICEA S-95-658/NEMA WC70**  
**acc. to ASTM B 33**  
**acc. to ASTM B 33**  
**MSHA approval**  
RoHS and CE approval



### UL/CSA Standards:

UL 44

# MINING CABLES

## FLEXIMINING® Type W

EPR/CPE portable power cable, UL C(UL) 2000V, -40°C up to 90°C ,  
FT5, SUN RES OIL RES 90°C WET or DRY, MSHA



ELETTROTEK KABEL® FLEXIMINING® Type W



Part no.	No. of cores x cross section n x AWG / MCM	Outer-Ø inches/mm ± 10%	Cable weight approx. Lbs/Mft-kg/km		
0510017L010A08	1 x 8	0,44	11,2	129	192
0510017L010A06	1 x 6	0,51	13	188	280
0510017L010A04	1 x 4	0,55	14	249	371
0510017L010A02	1x 2	0,64	16,2	363	540
0510017L010A01	1 x 1	0,72	18,3	439	654
0510017L010A1C	1x 1/0	0,77	19,5	526	783
0510017L010A2C	1 x 2/0	0,79	20	625	930
0510017L010A3C	1 x 3/0	0,87	22,1	757	1126
0510017L010A4C	1 x 4/0	0,88	22,5	897	1335
0510017L010A5C	1 x 250	1,03	26,2	1088	1619
0510017L010A7C	1 x 350	1,15	29,1	1444	2149
0510017L010AAC	1 x 500	1,25	31,9	1913	2846
0510017L010AFC	1 x 750	1,58	40,1	2916	4341
0510017L010AGC	1 x 800	1,61	41	3071	4570
0510017K020A08	2 x 8	0,83	21,1	391	581
0510017K020A06	2 x 6	0,94	23,9	571	849
0510017K020A04	2 x 4	1,07	27,3	793	1180
0510017K020A02	2 x 2	1,26	32,1	1142	1699
0510017K020A01	2 x 1	1,41	35,9	1357	2019
0510017K020A1C	2 x 1/0	1,51	38,3	1693	2520
0510017K020A2C	2 x 2/0	1,65	41,9	1908	2840
0510017K020A3C	2 x 3/0	1,77	45,0	2600	3870
0510017K020A4C	2 x 4/0	1,92	48,8	2675	3980
0510017K020A5C	2 x 250	2,10	53,3	3434	5110
0510017K030A08	3 x 8	0,91	23,1	541	805
0510017K030A06	3 x 6	1,01	25,7	715	1064
0510017K030A04	3 x 4	1,05	26,5	1010	1503
0510017K030A02	3 x 2	1,32	33,6	1405	2091
0510017K030A01	3 x 1	1,51	38,4	1734	2581
0510017K030A1C	3 x 1/0	1,63	41,4	2030	3010
0510017K030A2C	3 x 2/0	1,73	44,0	2566	3818
0510017K030A3C	3 x 3/0	1,85	47,0	2885	4293
0510017K030A4C	3 x 4/0	1,99	50,6	3479	5177
0510017K030A5C	3 x 250	2,39	60,7	4368	6500
0510017K030A7C	3 x 350	2,66	67,5	5895	8772
0510017K030AAC	3 x 500	2,98	75,8	7820	11638
0510017K040A08	4 x 8	0,97	24,6	656	976
0510017K040A06	4 x 6	1,11	28,3	908	1352
0510017K040A04	4 x 4	1,26	32,1	1262	1878
0510017K040A02	4 x 2	1,43	36,3	1759	2618
0510017K040A01	4 x 1	1,71	43,4	2322	3456
0510017K040A1C	4 x 1/0	1,78	45,2	2721	4050
0510017K040A2C	4 x 2/0	1,89	48,0	3293	4901
0510017K040A3C	4 x 3/0	2,02	51,4	3849	5729
0510017K040A4C	4 x 4/0	2,22	56,3	4765	7092
0510017K040A5C	4 x 250	2,61	66,2	5579	8303
0510017K040A7C	4 x 350	2,92	74,2	7329	10908
0510017K040AAC	4 x 500	3,36	85,3	9896	14729
0510017K050A10	5 x 10*	0,93	23,7	568	837
0510017K050A08	5 x 8	1,07	27,2	776	1154
0510017K050A06	5 x 6	1,24	31,5	1024	1524
0510017K050A04	5 x 4	1,36	35,2	1432	2131
0510017K050A02	5 x 2	1,56	39,8	2051	3052
0510017K050A01	5 x 1	1,85	47,1	2665	3967
0510017K050A1C	5 x 1/0	1,98	50,4	3406	5069
0510017K050A2C	5 x 2/0	2,13	54,1	3596	5351
0510017K050A3C	5 x 3/0	2,27	57,6	4728	7035
0510017K050A4C	5 x 4/0	2,46	62,6	5512	8203
0510017K050A5C	5 x 250*	2,72	69,0	6333	9425
0510017K050AAC	5 x 500*	3,50	88,9	-	17300

\* Based on ICEA S-75-381/NEMA WC-58, without approvals

Other dimensions and colors available on request.



## FLEXIDRUM® MEDIUM SHD GC

From 2 Kv up to 15 Kv



### Construction:

<b>Power conductor:</b>	flexible tinned copper conductor, acc. to ASTM B-172
<b>Inner semi-conductive layer:</b>	semi-conducting compound
<b>Insulation:</b>	rubber EPR compound
<b>Power screen:</b>	tinned copper braid with overall colored nylon and semi-conducting compound (non-conducting for 2 and 5 kV)
<b>Outer semi-conductive layer:</b>	semi-conducting compound
<b>Earth conductors:</b>	two finely stranded tinned copper acc. to ASTM B-172 uninsulated
<b>Monitoring conductor:</b>	finely stranded tinned copper acc. to ASTM B-172
<b>Monitoring insulation:</b>	PP compound
<b>Cores color:</b>	<b>Power:</b> natural color with Polyamide braid black, white, red acc. to ICEA S-75-381 <b>Monitoring:</b> yellow semi-conducting compound acc. to ICEA S-75-381 Tab. 3-22
<b>Outer sheath:</b>	black (similar to RAL 9005), rubber CPE compound

### Features:

others colour on request  
mechanical and water protection  
MSHA, CSA and other approvals on request  
two Earth conductors are used giving a total cross sectional area equal to at least 60% of the power conductor

for MINIMUM BENDING RADIUS  
see pages from 5 to 8 of catalogue

RoHS approval



### Technical data:

<b>Nominal voltage:</b>	2 kV up to 15 kV
<b>Temperature range:</b>	
<i>Flexible installation:</i>	-50°C up to +90°C
<b>Min. bending radius:</b>	8 x D

### Applications:

FLEXIDRUM® MEDIUM cables are designed to provide safe, reliable performance on cable reelers and festoons at temperatures from -50°C to +50°C at speed up to 750 feet/minute. These cables are designed for use on gantry cranes, stacker/reclaimers and other equipment.

# MINING CABLES

## FLEXIDRUM® MEDIUM SHD GC

From 2 Kv up to 15 Kv



2 kV		POWER	GROUND/MONITORING			
Part no.	AWG no.*)		AWG no.*) Kcmil	Nominal outside diameter (In) ± 10%	Weight approx. lbs. x 1000 ft	Maximum tensile load (lbs)
02110170037A06	6		10/10	1,29	1160	-
02110170037A04	4		8/10	1,4	1490	293
02110170037A02	2		6/10	1,59	2000	466
02110170037A01	1		5/8	1,76	2450	587
02110170037A1C	1/0		4/8	1,86	2840	741
02110170037A2C	2/0		3/8	2	3400	934
02110170037A3C	3/0		2/8	2,13	3680	1178
02110170037A4C	4/0		1/8	2,31	4860	1178
02110170037A5C	250 MCM		1/0 - 6	2,51	5950	1178
02110170037A7C	350 MCM		2/0 - 6	2,81	7400	1178
02110170037AAC	500 MCM		3/0 - 6	3,19	10100	1178
5 kV		POWER	GROUND/MONITORING			
Part no.	AWG no.*)		AWG no.*) Kcmil	Nominal outside diameter (In) ± 10%	Weight approx. lbs. x 1000 ft	Maximum tensile load (lbs)
02110270037A06	6		10/8	1,56	1565	-
02110270037A04	4		8/8	1,7	1920	293
02110270037A02	2		6/8	1,9	2500	466
02110270037A01	1		5/8	1,95	2860	587
02110270037A1C	1/0		4/8	2	3390	741
02110270037A2C	2/0		3/8	2,2	3830	934
02110270037A3C	3/0		2/8	2,35	4418	1178
02110270037A4C	4/0		1/8	2,5	5300	1178
02110270037A5C	250 MCM		1/0 - 6	2,7	6450	1178
02110270037A7C	350 MCM		2/0 - 6	2,95	7880	1178
02110270037AAC	500 MCM		3/0 - 6	3,3	10440	1178
8 kV		POWER	GROUND/MONITORING			
Part no.	AWG no.*)		AWG no.*) Kcmil	Nominal outside diameter (In) ± 10%	Weight approx. lbs. x 1000 ft	Maximum tensile load (lbs)
02110P70037A04	4		8/8	2	2200	293
02110P70037A02	2		6/8	2,2	2850	466
02110P70037A01	1		5/8	2,3	3370	587
02110P70037A1C	1/0		4/8	2,4	3600	741
02110P70037A2C	2/0		3/8	2,5	4200	934
02110P70037A3C	3/0		2/8	2,7	5100	1178
02110P70037A4C	4/0		1/8	2,6	5680	1178
02110P70037A5C	250 MCM		1/0 - 6	2,9	6750	1178
02110P70037A7C	350 MCM		2/0 - 6	3,3	8480	1178
02110P70037AAC	500 MCM		3/0 - 6	3,6	10720	1178
15 kV		POWER	GROUND/MONITORING			
Part no.	AWG no.*)		AWG no.*) Kcmil	Nominal outside diameter (In) ± 10%	Weight approx. lbs. x 1000 ft	Maximum tensile load (lbs)
02110T70037A02	2		6/8	2,5	3520	466
02110T70037A01	1		5/8	2,6	4100	587
02110T70037A1C	1/0		4/8	2,7	4630	741
02110T70037A2C	2/0		3/8	2,9	4900	934
02110T70037A3C	3/0		2/8	3	5600	1178
02110T70037A4C	4/0		1/8	3,1	6830	1178

Other dimensions and colors available on request.