

MINING CABLES

FLEXIMINING® (N)SHÖU



FLEXIMINING® (N)SHÖU 0,6/1 kV

Mining excavator

Construction:

Conductor:	Flexible tinned copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	rubber EPR type 3GI3 acc. to DIN VDE 0207
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Stranding:	in layers around central unit with short lay-length
Inner sheath:	rubber EPR type GM1b
Outer sheath:	black (similar to RAL 9005), rubber PCP type 5GM5 acc. to DIN VDE 0207 part 21

Features:

- ▶ For application in open-cast mining
- ▶ Ozone resistance
- ▶ high insulation resistance
- ▶ resistant against hot penetration
- ▶ low abrasion
- ▶ high notch resistance
- ▶ resistant against oils fat and chemicals
- ▶ MSHA, GOST-R and WUG approvals on request
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3,4/ 5,6 of catalogue

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	3 kV
Max. operating voltage:	U ₀ /U = 0,7/1,2 kV U ₀ /U = 0,9/1,8 kV
Temperature range	
Fixed laying:	- 40°C up to + 80°C
Flexible application:	- 25°C up to + 80°C
Insulation resistance:	> 20 MOhm x km
Tensile strength: static:	15 N/mm ²
Min. bending radius:	
fixed laying:	4 x d
flexing installation:	10 x d
without forced operation:	15 x d
Resistance:	Self-extinguishing and flame retardant: acc. to DIN VDE 0482 part 265-2-1 / EN 50265-2-1 / IEC 60332-1-2 Oil resistance: DIN VDE 0473 part 811-2-1, IEC EN 60811-2-1 Weather resistance: resistant to ozone Chemical resistance: very good to abrasion and oil

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
05020G7L010M62	1x16	10,6	154	235	240	6
05020G7L010M63	1x25	12,1	240	339	375	4
05020G7L010M64	1x35	13,4	336	431	525	2
05020G7L010M65	1x50	15,8	480	625	750	1
05020G7L010M66	1x70	17,7	672	838	1050	2/0
05020G7L010M67	1x95	19,8	912	1080	1425	3/0
05020G7L010M68	1x120	21,7	1152	1345	1800	4/0
05020G7L010M69	1x150	24,1	1440	1653	2250	250 MCM
05020G7L010M70	1x185	26,8	1776	2010	2775	350 MCM
05020G7L010M71	1x240	29,4	2304	2542	3600	450 MCM
05020G7L010M72	1x300	33,4	2880	3210	4500	550 MCM
05020G73020M15	2x1,5	10,9	29	172	45	16
05020G73020M25	2x2,5	11,8	48	208	75	14
05020G73020M40	2x4	13	77	240	120	12
05020G73031M15	3G1,5	12,2	43	155	68	16
05020G73030M25	3x2,5	12,2	72	216	113	14
05020G73031M25	3G2,5	13,2	72	217	113	14
05020G73030M40	3x4	13,6	115	280	180	12
05020G73031M40	3G4	14,3	115	304	180	12
05020G73030M60	3x6	14,3	173	354	270	10
05020G73031M60	3G6	17,4	173	354	270	10
05020G73030M61	3x10	17,4	288	512	450	8
05020G73030M62	3x16	20,3	461	785	720	6
05020G73030M63	3x25	24,2	720	1170	1125	4
05020G73030M64	3x35	26,7	1008	1460	1575	2
05020G73030M65	3x50	31,2	1440	2070	2250	1
05020G73030M66	3x70	36,6	2016	2875	3150	2/0
05020G73030M67	3x95	42,7	2736	3815	4275	3/0
05020G73030M68	3x120	46,5	3456	5010	5400	4/0
05020G73030M69	3x150	52,3	4320	5902	6750	250 MCM
05020G72037M65	3x50+3x25/3	31,2	1680	2312	2250	1
05020G72037M66	3x70+3x25/3	36,6	2352	3280	3150	2/0
05020G72037M67	3x95+3x50/3	45,6	3216	4375	4275	3/0
05020G72037M68	3x120+3x50/3	46,5	4128	5460	5400	4/0
05020G72037M69	3x150+3x70/3	53,9	4992	6945	6750	250 MCM
05020G72037M70	3x185+3x95/3	56,8	6240	8282	8325	350 MCM
05020G72037M71	3x240+3x120/3	-	8064	-	-	450 MCM
05020G72037M72	3x300+3x150/3	74,7	10080	13238	13500	550 MCM
05020G72041M15	4G1,5	12,1	58	212	90	16
05020G72041M25	4G2,5	13,1	96	235	150	14
05020G72041M40	4G4	14,1	154	345	240	12
05020G72041M60	4G6	16,2	230	450	360	10
05020G72041M61	4G10	18,7	384	670	600	8
05020G72041M62	4G16	22,9	614	1030	960	6
05020G72041M63	4G25	26,2	960	1475	1500	4
05020G72041M64	4G35	30,2	1344	1920	2100	2
05020G72041M65	4G50	35,4	1920	2620	3000	1
05020G72041M66	4G70	41,3	2688	3745	4200	2/0
05020G72041M67	4G95	46,6	3648	4820	5700	3/0
05020G72041M68	4G120	52,2	4608	6308	7200	4/0
05020G72041M69	4G150	57,2	5760	7568	9000	250 MCM
05020G72051M15	5G1,5	13	72	252	113	16
05020G72051M25	5G2,5	14	120	303	188	14
05020G72051M40	5G4	16	192	424	300	12
05020G72051M60	5G6	17,4	288	590	450	10
05020G72051M61	5G10	20,3	480	775	750	8
05020G72051M62	5G16	26,1	768	1310	1200	6
05020G72051M63	5G25	31,2	1200	1999	1875	4
05020G70071M15	7G1,5	14	101	272	158	16
05020G70081M15	8G1,5	14,9	115	320	180	16
05020G70071M25	7G2,5	16,8	168	410	225	14
05020G70101M15	10G1,5	16,8	144	420	270	16
05020G70121M15	12G1,5	17,1	173	505	315	16
05020G70141M15	14G1,5	18,1	202	610	427	16
05020G70191M15	19G1,5	20,2	274	405	263	16
05020G70081M25	8G2,5	16,2	192	440	300	14
05020G70101M25	10G2,5	17,1	240	520	375	14
05020G70121M25	12G2,5	18,7	288	570	450	14
05020G70141M25	14G2,5	18,6	336	656	525	14
05020G70181M25	18G2,5	20	432	852	675	14
05020G70191M25	19G2,5	22,5	466	910	712	14
05020G70241M25	24G2,5	23,6	576	1015	900	14
05020G71120M40	12x4	24,1	461	820	720	12
05020G71120M60	12x6	25,2	691	1120	1080	10

Other construction and sizes are available on request