

INDUSTRIAL MEDIUM VOLTAGE CABLES

RG7HIM1



ELETTROTEK KABEL® RG7H1M1



Construction:

Conductor:	stranded red copper conductor Cl. 2, acc to IEC 60228
Inner semi-conductive layer:	extruded semi-conducting compound
Insulation:	rubber type G7
Outer semi-conductive layer:	extruded semi-conducting compound
Screen:	red copper wires and one or two copper tape(s) applied helically, if necessary
Outer sheath:	red (RAL 3000), thermoplastic polyolefine halogen-free type M1

Resistance:



Flame retardant acc to:
DIN VDE 0482 part 265-2-1
EN 50265-2-1
IEC 60332-3-24 CEI 20-22 III



Halogen-free acc. to:
DIN VDE 0482 part 267
EN 50267-2-1
IEC 60754-1 (equivalent DIN VDE 0472 part 815)



Corrosiveness of conflagration gases acc. to:
DIN VDE 0482 part 267
EN 50267-2-2 /
IEC 60754-2 (equivalent DIN VDE 0472 part 813)

Technical data:

Nominal voltage:	U _o /U 1,8/3 kV, U _o /U 3,6/6 kV, U _o /U 6/10 kV, U _o /U 8,7/15 kV, U _o /U 12/20 kV, U _o /U 18/30 kV U _o /U 26/45 kV
Test voltage:	U _o /U 1,8/3 kV = 6 kV, U _o /U 3,6/6 kV = 11 kV, U _o /U 6/10 kV = 17 kV, U _o /U 8,7/15 kV = 24 kV, U _o /U 12/20 kV = 29 kV, U _o /U 18/30 kV = 45 kV
Max. operating voltage:	U _o /U 1,8/3 kV = U _m 3,6 kV U _o /U 3,6/6 kV = U _m 7,2 kV U _o /U 6/10 kV = U _m 12 kV U _o /U 8,7/15 kV = U _m 17,5 kV U _o /U 12/20 kV = U _m 24 kV U _o /U 18/30 kV = U _m 36 kV U _o /U 26/45 kV = U _m 52 kV
Temperature range:	- 5 °C up to + 105 °C
Max short circuit temperature:	+ 250 °C

Features:

according to IEC 60502-2

Acc. to normatives DIN VDE and IEC standards.

1,8/3 kV (U_m 3,6 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060KRL010M61	1x10	14	290	8
48060KRL010M62	1x16	15	350	6
48060KRL010M63	1x25	16	450	4
48060KRL010M64	1x35	17	550	2
48060KRL010M65	1x50	18,5	670	1
48060KRL010M66	1x70	20,5	880	2/0
48060KRL010M67	1x95	22	1100	3/0
48060KRL010M68	1x120	24,5	1400	4/0
48060KRL010M69	1x150	26	1650	250 MCM
48060KRL010M70	1x185	27,5	2000	350 MCM
48060KRL010M71	1x240	30	2550	450 MCM
48060KRL010M72	1x300	32,5	3150	550 MCM
48060KRL010M73	1x400	35,5	3950	750 MCM
48060KRL010M74	1x500	40	5050	900 MCM
48060KRL010M75	1x630	44	6300	1150 MCM

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3,6/6 kV (Um 7,2 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060MRL010M61	1x10	16	330	8
48060MRL010M62	1x16	17	410	6
48060MRL010M63	1x25	18,5	510	4
48060MRL010M64	1x35	20	630	2
48060MRL010M65	1x50	21,5	750	1
48060MRL010M66	1x70	23,5	1010	2/0
48060MRL010M67	1x95	25	1250	3/0
48060MRL010M68	1x120	26,5	1500	4/0
48060MRL010M69	1x150	28	1800	250 MCM
48060MRL010M70	1x185	30	2100	350 MCM
48060MRL010M71	1x240	32,5	2650	450 MCM
48060MRL010M72	1x300	35,3	3200	550 MCM
48060MRL010M73	1x400	37,5	4000	750 MCM
48060MRL010M74	1x500	41,6	5100	900 MCM
48060MRL010M75	1x630	46	6500	1150 MCM

6/10 kV (Um 12 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060QRL010M61	1x10	19,5	420	8
48060QRL010M62	1x16	21	530	6
48060QRL010M63	1x25	22,2	650	4
48060QRL010M64	1x35	23	760	2
48060QRL010M65	1x50	24,5	880	1
48060QRL010M66	1x70	26,5	1100	2/0
48060QRL010M67	1x95	28	1400	3/0
48060QRL010M68	1x120	29,3	1630	4/0
48060QRL010M69	1x150	31	1900	250 MCM
48060QRL010M70	1x185	33,3	2350	350 MCM
48060QRL010M71	1x240	35,6	2900	450 MCM
48060QRL010M72	1x300	38,5	3500	550 MCM
48060QRL010M73	1x400	41	4300	750 MCM
48060QRL010M74	1x500	45	5420	900 MCM
48060QRL010M75	1x630	48	6850	1150 MCM

8,7/15 kV (Um 17,5 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060SRL010M62	1x16	23,3	650	6
48060SRL010M63	1x25	24,5	750	4
48060SRL010M64	1x35	25,8	850	2
48060SRL010M65	1x50	27	1000	1
48060SRL010M66	1x70	28,5	1220	2/0
48060SRL010M67	1x95	30,1	1500	3/0
48060SRL010M68	1x120	32,5	1900	4/0
48060SRL010M69	1x150	33,5	2100	250 MCM
48060SRL010M70	1x185	35,5	2500	350 MCM
48060SRL010M71	1x240	38	3030	450 MCM
48060SRL010M72	1x300	41,5	3800	550 MCM
48060SRL010M73	1x400	43,3	4600	750 MCM
48060SRL010M74	1x500	47,4	5700	900 MCM
48060SRL010M75	1x630	52,6	7100	1150 MCM

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12/20 kV (Um 24 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060URL010M64	1x35	27,7	960	2
48060URL010M65	1x50	29	1100	1
48060URL010M66	1x70	30,5	1350	2/0
48060URL010M67	1x95	33	1650	3/0
48060URL010M68	1x120	34,8	1950	4/0
48060URL010M69	1x150	36,2	2300	250 MCM
48060URL010M70	1x185	37,6	2600	350 MCM
48060URL010M71	1x240	40,2	3200	450 MCM
48060URL010M72	1x300	43	3900	550 MCM
48060URL010M73	1x400	45,8	4800	750 MCM
48060URL010M74	1x500	50	5900	900 MCM
48060URL010M75	1x630	54	7300	1150 MCM

18/30 kV (Um 36 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060XRL010M65	1x50	34,1	1400	1
48060XRL010M66	1x70	36,2	1700	2/0
48060XRL010M67	1x95	38,2	1950	3/0
48060XRL010M68	1x120	40	2230	4/0
48060XRL010M69	1x150	41	2550	250 MCM
48060XRL010M70	1x185	43	3000	350 MCM
48060XRL010M71	1x240	45	3600	450 MCM
48060XRL010M72	1x300	47	4300	550 MCM
48060XRL010M73	1x400	51,1	5200	750 MCM
48060XRL010M74	1x500	53	6300	900 MCM
48060XRL010M75	1x630	60,2	7800	1150 MCM

26/45 kV (Um 52 kV)

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060ZRL010M66	1x70	41,9	2150	2/0
48060ZRL010M67	1x95	43,8	2490	3/0
48060ZRL010M68	1x120	44,8	2735	4/0
48060ZRL010M69	1x150	45,1	3020	250 MCM
48060ZRL010M70	1x185	47,1	3395	350 MCM
48060ZRL010M71	1x240	49,2	4025	450 MCM
48060ZRL010M72	1x300	52,2	4725	550 MCM
48060ZRL010M73	1x400	54,8	5635	750 MCM
48060ZRL010M74	1x500	58,6	6825	900 MCM
48060ZRL010M75	1x630	62,7	8260	1150 MCM

* For cables laying in earth a screen-cross section of 16 mm is permitted.

Other dimensions and colours available on request.