

# INDUSTRIAL MEDIUM VOLTAGE CABLES

## RG7HI(O)MI



ELETTROTEK KABEL® RG7H10M1



### Construction:

<b>Conductor:</b>	stranded red copper conductor Cl. 2, acc.to IEC 60228
<b>Inner semi-conductive layer:</b>	extruded semi-conducting compound
<b>Insulation:</b>	rubber type G7
<b>Outer semi-conductive layer:</b>	extruded semi-conducting compound
<b>Screen:</b>	red copper tape
<b>Inner sheath:</b>	halogen-free type M1, colour natural
<b>Outer sheath:</b>	red (RAL 3000), thermoplastic polyolefine halogen-free type M1

### Technical data:

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

1,8/3 kV (U<sub>m</sub> 3,6 kV)

Part no.	No.of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	AWG no.)*
48060KR1030M61	3x10	27,2	904	8
48060KR1030M62	3x16	29,5	1155	6
48060KR1030M63	3x25	32,5	1575	4
48060KR1030M64	3x35	34,5	1952	2
48060KR1030M65	3x50	37,2	2332	1
48060KR1030M66	3x70	41,4	3150	2/0
48060KR1030M67	3x95	45	4024	3/0
48060KR1030M68	3x120	48,7	4918	4/0
48060KR1030M69	3x150	52,2	5791	250 MCM
48060KR1030M70	3x185	56,5	7086	350 MCM
48060KR1030M71	3x240	62	8975	450 MCM
48060KR1030M72	3x300	67,3	11069	550 MCM
48060KR1030M73	3x400	74,2	13756	750 MCM

### 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)

### Features:

according to IEC 60502-2

# INDUSTRIAL MEDIUM VOLTAGE CABLES

## RG7HI(O)MI



ELETTROTEK KABEL® RG7HIOM1

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

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060MR1030M61	3x10	31,8	1287	8
48060MR1030M62	3x16	34,4	1530	6
48060MR1030M63	3x25	37,4	1980	4
48060MR1030M64	3x35	39,7	2406	2
48060MR1030M65	3x50	42,8	2896	1
48060MR1030M66	3x70	46,3	3663	2/0
48060MR1030M67	3x95	50	4653	3/0
48060MR1030M68	3x120	54,2	5544	4/0
48060MR1030M69	3x150	57,3	6435	250 MCM
48060MR1030M70	3x185	61,5	7821	350 MCM
48060MR1030M71	3x240	66,8	9900	450 MCM
48060MR1030M72	3x300	72,9	12375	550 MCM
48060MR1030M73	3x400	78,2	15420	750 MCM

6/10 kV (Um 12 kV)

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060QR1030M61	3x10	36,9	1791	8
48060QR1030M62	3x16	39	2070	6
48060QR1030M63	3x25	42	2497	4
48060QR1030M64	3x35	44	2945	2
48060QR1030M65	3x50	47	3463	1
48060QR1030M66	3x70	51	4378	2/0
48060QR1030M67	3x95	55	5403	3/0
48060QR1030M68	3x120	57,1	6358	4/0
48060QR1030M69	3x150	62	7413	250 MCM
48060QR1030M70	3x185	66	8806	350 MCM
48060QR1030M71	3x240	72,1	10935	450 MCM
48060QR1030M72	3x300	77,8	13293	550 MCM
48060QR1030M73	3x400	85	16000	750 MCM

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

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060SR1030M62	3x16	45,5	2567	6
48060SR1030M63	3x25	48	3025	4
48060SR1030M64	3x35	51,2	3512	2
48060SR1030M65	3x50	53,5	4109	1
48060SR1030M66	3x70	58	5035	2/0
48060SR1030M67	3x95	61,5	6119	3/0
48060SR1030M68	3x120	65	7094	4/0
48060SR1030M69	3x150	68,2	8199	250 MCM
48060SR1030M70	3x185	72,5	9652	350 MCM
48060SR1030M71	3x240	78,2	11860	450 MCM
48060SR1030M72	3x300	78,6	14185	550 MCM

# INDUSTRIAL MEDIUM VOLTAGE CABLES

## RG7HI(O)MI



ELETTROTEK KABEL® RG7HIOM1



12/20 kV (Um 24 kV)

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060UR1030M64	3x35	57,6	4050	2
48060UR1030M65	3x50	60,1	4637	1
48060UR1030M66	3x70	64,5	5652	2/0
48060UR1030M67	3x95	69,5	6786	3/0
48060UR1030M68	3x120	74,8	7791	4/0
48060UR1030M69	3x150	75	8925	250 MCM
48060UR1030M70	3x185	80,3	10428	350 MCM
48060UR1030M71	3x240	84	12627	450 MCM
48060UR1030M72	3x300	91,5	15094	550 MCM

18/30 kV (Um 36 kV)

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	AWG no. *)
48060XR1030M65	3x50	72	6420	1
48060XR1030M66	3x70	75,9	7500	2/0
48060XR1030M67	3x95	80,1	8740	3/0
48060XR1030M68	3x120	83,2	9840	4/0
48060XR1030M69	3x150	86,9	11070	250 MCM
48060XR1030M70	3x185	91	12730	350 MCM
48060XR1030M71	3x240	96,3	15060	450 MCM

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

Other dimensions and colours available on request.