

RG7HI(O)R



Construction:

Conductor:	stranded red copper conductor Cl. 2, acc. to IEC 60228
Inner semi-conductive layer:	semi-conducting compound
Insulation:	rubber type G7
Outer semi-conductive layer:	semi-conducting rubber compound
Screen:	red copper tape
Inner sheath:	not hygroscopic filler
Outer sheath:	red (RAL 3000), PVC type RZ

Resistance:



Flame retardant acc. to:
DIN VDE 0482 part 265-2-1
EN 50265-2-1
EN 60332-1-2

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:	- 15 °C up to + 90 °C
Max short circuit temperature:	+ 250 °C
Min installation temperature:	0 °C
Min. bending radius:	12 x d
Max. tensile stress:	60 N/mm ²

Features:

according to IEC 60502-2

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. *)
48010KR1030M61	3x10	27,2	904	8
48010KR1030M62	3x16	29,5	1155	6
48010KR1030M63	3x25	32,5	1575	4
48010KR1030M64	3x35	34,5	1952	2
48010KR1030M65	3x50	37,2	2332	1
48010KR1030M66	3x70	41,4	3150	2/0
48010KR1030M67	3x95	45	4024	3/0
48010KR1030M68	3x120	48,7	4918	4/0
48010KR1030M69	3x150	52,2	5791	250 MCM
48010KR1030M70	3x185	56,5	7086	350 MCM
48010KR1030M71	3x240	62	8975	450 MCM
48010KR1030M72	3x300	67,3	11069	550 MCM
48010KR1030M73	3x400	74,2	13756	750 MCM

INDUSTRIAL MEDIUM VOLTAGE CABLES

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ELETTROTEK KABEL® RG7H1OR

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. *)
4801OMR1030M61	3x10	31,8	1287	8
4801OMR1030M62	3x16	34,4	1530	6
4801OMR1030M63	3x25	37,4	1980	4
4801OMR1030M64	3x35	39,7	2406	2
4801OMR1030M65	3x50	42,8	2896	1
4801OMR1030M66	3x70	46,3	3663	2/0
4801OMR1030M67	3x95	50	4653	3/0
4801OMR1030M68	3x120	54,2	5544	4/0
4801OMR1030M69	3x150	57,3	6435	250 MCM
4801OMR1030M70	3x185	61,5	7821	350 MCM
4801OMR1030M71	3x240	66,8	9900	450 MCM
4801OMR1030M72	3x300	72,9	12375	550 MCM
4801OMR1030M73	3x400	78,2	15420	750 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. *)
4801OQR1030M61	3x10	36,9	1791	8
4801OQR1030M62	3x16	39	2070	6
4801OQR1030M63	3x25	42	2497	4
4801OQR1030M64	3x35	44	2945	2
4801OQR1030M65	3x50	47	3463	1
4801OQR1030M66	3x70	51	4378	2/0
4801OQR1030M67	3x95	55	5403	3/0
4801OQR1030M68	3x120	57,1	6358	4/0
4801OQR1030M69	3x150	62	7413	250 MCM
4801OQR1030M70	3x185	66	8806	350 MCM
4801OQR1030M71	3x240	72,1	10935	450 MCM
4801OQR1030M72	3x300	77,8	13293	550 MCM
4801OQR1030M73	3x400	85	16000	750 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. *)
4801OSR1030M62	3x16	45,5	2567	6
4801OSR1030M63	3x25	48	3025	4
4801OSR1030M64	3x35	51,2	3512	2
4801OSR1030M65	3x50	53,5	4109	1
4801OSR1030M66	3x70	58	5035	2/0
4801OSR1030M67	3x95	61,5	6119	3/0
4801OSR1030M68	3x120	65	7094	4/0
4801OSR1030M69	3x150	68,2	8199	250 MCM
4801OSR1030M70	3x185	72,5	9652	350 MCM
4801OSR1030M71	3x240	78,2	11860	450 MCM
4801OSR1030M72	3x300	78,6	14185	550 MCM

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. *)
4801OUR1030M64	3x35	57,6	4050	2
4801OUR1030M65	3x50	60,1	4637	1
4801OUR1030M66	3x70	64,5	5652	2/0
4801OUR1030M67	3x95	69,5	6786	3/0
4801OUR1030M68	3x120	74,8	7791	4/0
4801OUR1030M69	3x150	75	8925	250 MCM
4801OUR1030M70	3x185	80,3	10428	350 MCM
4801OUR1030M71	3x240	84	12627	450 MCM
4801OUR1030M72	3x300	91,5	15094	550 MCM

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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. *)
48010XR1030M64	3x35	69,5	5800	2
48010XR1030M65	3x50	72	6420	1
48010XR1030M66	3x70	75,9	7500	2/0
48010XR1030M67	3x95	80,1	8740	3/0
48010XR1030M68	3x120	83,2	9840	4/0
48010XR1030M69	3x150	86,9	11070	250 MCM
48010XR1030M70	3x185	91	12730	350 MCM
48010XR1030M71	3x240	96,3	15060	450 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. *)
48010ZR1030M66	3x70	86	9130	2/0
48010XR1030M67	3x95	91	10450	3/0
48010XR1030M68	3x120	94,3	11650	4/0
48010XR1030M69	3x150	92,7	12000	250 MCM
48010XR1030M70	3x185	97	13570	350 MCM

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

Other dimensions and colours available on request.