

INDUSTRIAL MEDIUM VOLTAGE CABLES

RE4H1R (XLPE/CTS/PVC)



ELETTROTEK KABEL® RE4H1R



Construction:

Conductor:	stranded red copper conductor Cl.2, acc. to IEC 60228
Inner semi-conductive layer:	extruded semi-conducting compound
Insulation:	XLPE compound
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), PVC type ST2

Resistance:



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

Technical data:

Nominal voltage:	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 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 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 as far as applicable

3,6/6 kV (U_m 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. *)
48100MRL010M64	1x35	18	620	2
48100MRL010M65	1x50	19,2	750	1
48100MRL010M66	1x70	20,7	970	2/0
48100MRL010M67	1x95	22,4	1240	3/0
48100MRL010M68	1x120	23,9	1470	4/0
48100MRL010M69	1x150	25,3	1780	250 MCM
48100MRL010M70	1x185	6,8	2130	350 MCM
48100MRL010M71	1x240	29,8	2730	450 MCM
48100MRL010M72	1x300	32,9	3390	550 MCM
48100MRL010M73	1x400	35,9	4260	750 MCM
48100MRL010M74	1x500	39,7	5390	900 MCM
48100MRL010M75	1x630	44,3	6880	1150 MCM

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RE4HIR (XLPE/CTS/PVC)



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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.)*
48100QRL010M64	1x35	19,8	680	2
48100QRL010M65	1x50	21	810	1
48100QRL010M66	1x70	22,5	1040	2/0
48100QRL010M67	1x95	24,2	1320	3/0
48100QRL010M68	1x120	25,5	1570	4/0
48100QRL010M69	1x150	27	1850	250 MCM
48100QRL010M70	1x185	28,8	2230	350 MCM
48100QRL010M71	1x240	31,6	2830	450 MCM
48100QRL010M72	1x300	34	3460	550 MCM
48100QRL010M73	1x400	36,5	4310	750 MCM
48100QRL010M74	1x500	40	5420	900 MCM
48100QRL010M75	1x630	44,5	6910	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.)*
48100SRL010M64	1x35	22	760	2
48100SRL010M65	1x50	23	900	1
48100SRL010M66	1x70	24,5	1130	2/0
48100SRL010M67	1x95	26,5	1410	3/0
48100SRL010M68	1x120	28	1690	4/0
48100SRL010M69	1x150	29,5	1970	250 MCM
48100SRL010M70	1x185	31	2360	350 MCM
48100SRL010M71	1x240	34	2950	450 MCM
48100SRL010M72	1x300	36,5	3610	550 MCM
48100SRL010M73	1x400	39	4470	750 MCM
48100SRL010M74	1x500	42,5	5590	900 MCM
48100SRL010M75	1x630	47	7100	1150 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.)*
48100URL010M64	1x35	24	840	2
48100URL010M65	1x50	25,2	980	1
48100URL010M66	1x70	26,5	1130	2/0
48100URL010M67	1x95	28,5	1520	3/0
48100URL010M68	1x120	30	1790	4/0
48100URL010M69	1x150	31,5	2090	250 MCM
48100URL010M70	1x185	33,2	2460	350 MCM
48100URL010M71	1x240	36	3080	450 MCM
48100URL010M72	1x300	38,5	3750	550 MCM
48100URL010M73	1x400	41,3	4620	750 MCM
48100URL010M74	1x500	44,5	5760	900 MCM
48100URL010M75	1x630	49,3	7280	1150 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. *)
48100XRL010M65	1x50	30,3	1230	1
48100XRL010M66	1x70	32	1500	2/0
48100XRL010M67	1x95	34	1820	3/0
48100XRL010M68	1x120	35,5	2100	4/0
48100XRL010M69	1x150	37	2390	250 MCM
48100XRL010M70	1x185	38,5	2800	350 MCM
48100XRL010M71	1x240	41,5	3450	450 MCM
48100XRL010M72	1x300	44	4120	550 MCM
48100XRL010M73	1x400	46,5	5030	750 MCM
48100XRL010M74	1x500	50	6170	900 MCM
48100XRL010M75	1x630	55	7760	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. *)
48100ZRL010M68	1x120	40	2340	4/0
48100ZRL010M69	1x150	40	2510	250 MCM
48100ZRL010M74	1x500	53	6270	900 MCM

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

Other dimensions and colours available on request.