


PVC-om izoliran i oplašten energetski kabel
 PVC insulated and sheathed power cable

HRN HD 603 S1 • DIN VDE 0276-603 • IEC 60502-1


KONSTRUKCIJA / CONSTRUCTION
Vodič Cu (bakreni) vodič, klase 1 (puni) ili klase 2 (višežični) prema EN 60228

a) Klasa 1: okrugli (RE)
b) Klasa 2: okrugli (RM)

Izolacija PVC smjesa DIV-4 prema HD 603.1

Ispuna brizgana elastomerna ili plastomerna mješavina

Plašt PVC smjesa DMV-5 prema HD 603.1

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Conductor Cu, class 1 or 2 acc. to EN 60228

a) Class 1: solid, round (RE)
b) Class 2: multi wire stranded, round (RM)

Insulation PVC compound DIV-4 acc. to HD 603.1

Filler extruded elastomer or plastomer compound

Sheath PVC compound DMV-5 acc. to HD 603.1

TEHNIČKI PODACI / TECHNICAL DATA
Ekvivalenti: PP00 prema standardu IEC 60502-1
 E-YY prema standardu ÖVE-K 603

Norme: HRN HD 603 S1
 DIN VDE 0276-603
 IEC 60502-1

Nazivni napon: $U_0/U = 0,6/1$ kV
Ispitni napon: 4 kV

Granični temperaturni uvjeti:

 Minimalna temperatura polaganja: -5° C
 Radna temperatura: -20° C do +70° C
 Temperatura kratkog spoja max. 5s: 160° C

Test zapaljivosti: Kabel je samogasiv prema EN 60332-1-2

Minimalni polumjer savijanja: 12xØ kabela višežilni, 15xØ kabela za jednožilni

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Equivalent: PP00 acc. to IEC 60502-1
 E-YY acc. to ÖVE-K 603

Standards: HRN HD 603 S1
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Nominal voltage: $U_0/U = 0,6/1$ kV
Test voltage: 4 kV

Temperature range:

 Minimum temperature during installation: -5° C
 Fixed installed: -20° C do +70° C
 At short circuit of max. 5s: 160° C

Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to EN 60332-1-2

Minimal inner bending radius: 12xØ multi core, 15xØ single core

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KONSTRUKCIJSKI PODACI / CONSTRUCTION DATA

Nazivni presjek	Izvedba vodiča	Vanjski promjer	Otpor vodiča na 20 °C	Strujno opterećenje (u zraku)	Strujno opterećenje (u zemlji)	Cu broj	Težina kabela	Standardno pakiranje*
Construction	Shape of the conductor	Outer diameter	Conductor resistance at 20 °C	Current carrying capacity (air)	Current carrying capacity (ground)	Cu weight	Cable weight	Packing*
mm ²		ca. mm	Ω/km	nom. A	nom. A	kg/km	ca. kg/km	
1 x 4	RE	7,9	4,61	37	50	38,4	110	KOT 100, SP40 500
1 x 6	RE	8,4	3,08	47	62	57,6	130	KOT 100, SP40 500
1 x 10	RE/RM	9,3	1,83	64	83	96	180	SP45 500
1 x 16	RE/RM	10,7	1,15	84	107	153,6	240	SP45 500, SP50 500
1 x 25	RM	12,5	0,727	114	138	240	350	SP60 500
1 x 35	RM	13,6	0,524	139	164	336	460	SP60 500
1 x 50	RM	15,4	0,387	169	195	480	600	SP70 500
2 x 1,5	RE	11,6	12,1	20	27	28,8	190	SP45 500
2 x 2,5	RE	12,4	7,41	25	36	48	230	SP50 500
2 x 4	RE	14,1	4,61	34	47	76,8	310	SP60 500
2 x 6	RE	15,1	3,08	43	59	115,2	380	SP60 500
3 x 1,5	RE	12,0	12,1	20	27	43,2	190	KOT 100, SP50 500
3 x 2,5	RE	12,9	7,41	25	36	72	240	KOT 100, SP50 500
3 x 4	RE	14,8	4,61	34	47	115,2	330	KOT 100, SP60 500
3 x 6	RE	15,9	3,08	43	59	172,8	420	SP70 500
3 x 10	RE/RM	18,1	1,83	59	79	288	580	DB08 500
3 x 16	RE/RM	21,0	1,15	79	102	460,8	810	DB08 500
3 x 25	RM	25,1	0,727	106	133	720	1300	DB10 500
3 x 35	RM	27,5	0,524	129	159	1008	1400	DB10 500
4 x 1,5	RE	13,0	12,1	20	27	57,6	230	KOT 100, SP50 500
4 x 2,5	RE	13,9	7,41	25	36	96	290	KOT 100, SP60 500
4 x 4	RE	15,8	4,61	34	47	153,6	400	KOT 100, SP70 500
4 x 6	RE	16,9	3,08	43	59	230,4	510	DB08 500
4 x 10	RE/RM	19,1	1,83	59	79	384	720	DB08 500
4 x 16	RE/RM	22,0	1,15	79	102	614,4	1050	DB09 500
4 x 25	RM	27,8	0,727	106	133	960	1600	DB10 500
5 x 1,5	RE	13,3	12,1	20	27	72	270	KOT 100, SP60 500
5 x 2,5	RE	14,3	7,41	25	36	120	350	KOT 100, SP60 500
5 x 4	RE	16,7	4,61	34	47	192	480	DB08 500
5 x 6	RE	18,1	3,08	43	59	288	610	DB08 500
5 x 10	RE/RM	21,5	1,83	59	79	480	880	DB09 500
5 x 16	RE/RM	25,7	1,15	79	102	768	1250	DB10 500

Moguća boja plašta / Sheath colour identification

● (bk) crna / black

* Pakiranje: KOT 100 = kolut 100m, SP = kabel namotan na lagani bubanj, DB = kabel namotan na standardni bubanj

* Packing: KOT 100 = coil 100m, SP = cable on plywood reel, DB = cable on wooden drum


PRIMJENA / APPLICATION

Energetski kabel za napajanje, za vanjsko polaganje (uz zaštitu od direktnog ultraljubičastog zračenja), polaganje u zemlju, beton, u zatvorene prostorije, kabelske kanale, u elektranama i u industriji, u gradskim mrežama, gdje se ne očekuju mehanička oštećenja, te kabeli nisu izloženi mehaničkim nateznim silama. Upotrebljava se u elektranama, trafostanicama, industrijskim pogonima, gradskim mrežama i drugim električnim postrojenjima.

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Distribution and signal power cable for static outdoor application (with protection against direct UV-irradiation), in ground, within facilities, in cable canals, in concrete, in conditions where heavier mechanical loads and specially tensile strains, are not expected. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants, same as for connection of signalling devices in industry, traffic and similar.

