

**Bezhalogeni teškogorivi energetski kabel**

Halogen-free power cable, with improved properties under fire

HRN HD 604 S1 • DIN VDE 0276-604

**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** umreženi polietilen: XLPE tipa 2X11 prema HD 604 S1**Ispuna** HFFR bezhalogena polimerna mješavina**Plašt** HFFR bezhalogena polimerna mješavina tipa HM4 prema HD 604 S1

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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** XLPE-compound 2X11 acc. to HD 604 S1**Filler** HFFR extruded halogen-free polymer**Sheath** HFFR extruded halogen-free polymer, type HM4 acc. to HD 604 S1**TEHNIČKI PODACI / TECHNICAL DATA****Norme:** HRN HD 604 S1  
DIN VDE 0276-604**Nazivni napon:**  $U_0/U = 0,6/1$  kV  
**Ispitni napon:** 4 kV**Granični temperaturni uvjeti:**Minimalna temperatura polaganja: -5° C  
Radna temperatura: -30° C do +90° C  
Temperatura kratkog spoja max. 5s: 250° C**Test zapaljivosti:** EN 60332-3**Minimalni polumjer savijanja:** 12xØ kabela višežični, 15xØ kabela za jednožični

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**Standards:** HRN HD 604 S1  
DIN VDE 0276-604**Nominal voltage:**  $U_0/U = 0,6/1$  kV  
**Test voltage:** 4 kV**Temperature range:**Minimum temperature during installation: -5° C  
Fixed installed: -30° C do +90° C  
At short circuit of max. 5s: 250° C**Behaviour in fire:** EN 60332-3**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)	Cu broj	Težina kabela	Standardno pakiranje*
Construction	Shape of the conductor	Outer diameter	Conductor resistance at 20 °C	Current carrying capacity (air)	Cu weight	Cable weight	Packing*
mm <sup>2</sup>		ca. mm	Ω/km	nom. A	kg/km	ca. kg/km	
1 x 4	RE	6,4	4,61	40	38,4	73	KOT 100, SP40 500
1 x 6	RE	6,9	3,08	52	57,6	94	KOT 100, SP40 500
1 x 10	RE/RM	7,8	1,83	71	96	135	SP40 500S
1 x 16	RE/RM	9,3	1,15	96	153,6	207	P40 500
2 x 1,5	RE	8,9	12,1	29	28,8	117	SP45 500
2 x 2,5	RE	10,2	7,41	38	48	150	SP45 500
2 x 4	RE	10,7	4,61	51	76,8	197	SP50 500
2 x 6	RE	12,3	3,08	64	115,2	275	SP60 500
2 x 10	RE/RM	13,9	1,83	86	192	390	SP60 500
2 x 16	RE/RM	16,9	1,15	110	307	589	SP75 500
2 x 25	RM	20,8	0,727	138	480	912	SP75 500
2 x 35	RM	22,8	0,524	171	672	1162	SP75 500
3 x 1,5	RE	9,2	12,1	24	43,2	135	KOT 100, SP40 500
3 x 2,5	RE	10,1	7,41	32	72	177	KOT 100, SP45 500
3 x 4	RE	11,3	4,61	42	115,2	243	KOT 100, SP50 500
3 x 6	RE	12,6	3,08	53	172,8	324	SP60 500
3 x 10	RE/RM	14,6	1,83	74	288	480	DB07 500
3 x 16	RE/RM	17,8	1,15	98	461	748	DB08 500
3 x 25	RM	22,1	0,727	133	720	1150	DB09 500
4 x 1,5	RE	9,8	12,1	24	57,6	157	KOT 100, SP50 500
4 x 2,5	RE	10,8	7,41	32	96	209	KOT 100, SP50 500
4 x 4	RE	12,0	4,61	42	153,6	290	KOT 100, SP60 500
4 x 6	RE	13,2	3,08	53	230,4	401	DB07 500
4 x 10	RE/RM	15,8	1,83	74	384	590	DB08 500
4 x 16	RE/RM	19,5	1,15	98	614,4	922	DB08 500
4 x 25	RM	23,2	0,727	133	960	1425	DB10 500
5 x 1,5	RE	10,9	12,1	24	72	191	KOT 100, SP50 500
5 x 2,5	RE	12,1	7,41	32	120	256	KOT 100, SP60 500
5 x 4	RE	13,5	4,61	42	192	357	DB07 500
5 x 6	RE	14,9	3,08	53	288	481	DB08 500
5 x 10	RE/RM	17,2	1,83	74	480	710	DB08 500
5 x 16	RE/RM	21,8	1,15	98	768	1135	DB09 500

**Moguća boja plašta / Sheath colour identification**

● (bk) crna / black

\* **Pakiranje:** KOT 100 = 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 pogodan za fiksno polaganje u suhim i vlažim prostorijama, iznad ili ispod žbuke, na zraku i u betonu, ali nije za direktno polaganje u zemlju. Pogodni su za sustave napajanja u slučaju nužde. Upotrebljava se gdje je velika koncentracija ljudi (hoteli, tuneli, neboderi, bolnice, škole, metroi, aerodromi itd.), te u tvornicama, gdje su dobra svojstva u slučaju požara neophodna i bez ikakve emisije otrovnih i korozivnih plinova (HCl).

Power cable suitable for fixed installation in dry and damp environment, on or under plaster, on cable trays, same as in walls and concrete. Not intended for direct laying in ground. For outdoor application can be laid in tubes, but in that case should be taken all precautionary measures necessary to prevent water penetration into the tubes. Suitable for supply systems in an emergency. Appropriate for application in all situations where people and material goods need to be protected in case of fire. Recommended for public buildings frequented by a lot of people, and for buildings of high material value, for industrial complexes, electric power plants, transformer stations, municipal facilities, hotels, shopping malls, hospitals, schools, airports, underground railways and similar.