ttcables
ELECTRIC CABLE WORKS

RZ1-K

Power cable 0,6/1 kV AC (1,5 kV DC) with Cu conductors, XLPE insulated and HFFR sheathed

APPLICATION

Power cable suitable for fixed installation in dry and damp environment, on or under plaster, on cable trays, same as in walls and concrete. Suitable for 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.
Concentric conductor serves as electromagnetic screen, which could also be applied as neutral conductor. Expected lifetime 50 years, provided proper installation, load and ambient temperature.

CONSTRUCTION

Conductors: Cu, class 5 according to EN 60228
Insulation: XLPE compound, type DIX 3
Bedding: Extruded elastomere or plastomere LSZH compound
Sheat: LSZH compound, type DMZ-E
CABLE IS UV RESISTANT

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:
Single-core: Green/Yellow OR Black
2-core: Brown Blue
3-core (a): Green/Yellow Brown Blue
3-core (b): Black Brown Grey
4-core (a): Green/Yellow Brown Black Grey
4-core (b): Blue Brown Black Grey
5-core: Green/Yellow Blue Brown Black Grey

Outer Sheath Colour:
Black
Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: B2ca- s1a, d1, a1
Test voltage: 3,5 kV AC, 50 Hz, 5 min. per core
Rated voltage: 0,6/1 kV
Bending radius (min): 5xD, D-overall diameter
Min. service temperature:-40°C
Min. installation and handling temp.:-15°C
Max. cond. operating temp.: 90°C
Max. short-circuit temperature: 250°C
Low smoke emitting: EN 61034-2
Halogen free: EN 60754-1;
EN 60754-2
Vertical flame spread: EN IEC 60332-3-24
Flame propagation: EN 60332-1-2
CPR class: EN 50575, EN 13501-6

STANDARD

UNE 21123-4, IEC 60502-1
HD 604-5D (Chosen parts)

CERTIFICATION

CE
RoHS compliant
IEC International Electrotechnical Commission
REACH
CPR

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SINGLE - CORE CABLES:

CROSS – SECTION	Max. resis-tance at 20°C	CURRENT CAPACITY IN AIR		CURRENT CAPACITY IN EARTH		Outer diam. (approx.)	Cu weight	Cable weight (approx.)
		AC SYSTEMS	DC SYSTEMS	AC SYSTEMS	DC SYSTEMS			
mm²	Ω/km	A	A	A	A	mm	kg/km	kg/km
1x6	3,30	56	72	67	102	8,0	58,0	120
1x10	1,910	77	99	89	136	8,9	96,0	169
1x16	1,210	102	131	115	176	9,9	153,6	238
1x25	0,780	138	177	148	229	12,3	240,0	354
1x35	0,554	170	217	177	275	13,6	336,0	465
1x50	0,386	207	265	209	326	15,5	480,0	635
1x70	0,272	263	336	256	400	17,8	672,0	857
1x95	0,206	325	415	307	480	19,5	9112,0	1124
1x120	0,161	380	485	349	548	21,8	1152,0	1398
1x150	0,129	437	557	393	616	24,1	1440,0	1735
1x185	0,106	507	646	445	698	26,6	1776,0	2117
1x240	0,0801	604	774	517	815	29,6	2304,0	2707
1x300	0,0641	679	901	583	927	33,0	2880,0	3355
1x400	0,0486	811	1060	663	1064	37,1	3840,0	4412
1x500	0,0384	940	1252	749	1227	41,6	4800,0	5484
1x630	0,0287	**1083**	1486	843	1421	48,0	6048,0	6909

TWO - CORE CABLES:

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm²	Ω/km	A	A	mm	kg/km	kg/km
2x1,5	13,3	24	31	10,4	28,8	139
2x2,5	7,98	32	40	11,6	48,0	181
2x4	4,95	42	52	12,8	76,8	235
2x6	3,3	53	64	14,6	115,2	313
2x10	1,910	74	86	17,0	192,0	449
2x16	1,210	98	112	18,8	307,2	613
2x25	0,780	133	145	21,4	480,0	871
2x35	0,554	162	174	24,0	672,0	1149
2x50	0,386	197	206	27,8	960,0	1583
2x70	0,272	250	254	32,4	1344,0	2167
2x95	0,206	308	305	35,8	1824,0	2819
2x120	0,161	359	348	40,6	2304,0	3565
2x150	0,129	412	392	45,0	2880,0	4424
2x185	0,106	475	444	50,0	3552,0	5438
2x240	0,0801	564	517	56,0	1608,0	6953

THREE - CORE CABLES:

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²	Ω/km	A	A	mm	kg/km	kg/km
3x1,5	13,3	24	31	10,7	43,2	154
3x2,5	7,98	32	40	12,0	72,0	205
3x4	4,95	42	52	13,3	115,2	273
3x6	3,3	53	64	15,2	172,8	369
3x10	1,910	74	86	17,8	288,0	541
3x16	1,210	98	112	19,7	460,8	759
3x25	0,780	133	145	22,5	720,0	1103
3x35	0,554	162	174	25,3	1008,0	1471
3x50	0,386	197	206	29,4	1440,0	2040
3x70	0,272	250	254	34,6	2016,0	2819
3x95	0,206	308	305	38,0	2736,0	3685
3x120	0,161	359	348	43,2	3456,0	4653
3x150	0,129	412	392	47,9	4320,0	5788
3x185	0,106	475	444	53,5	5328,0	7143
3x240	0,0801	564	517	59,7	6912,0	9132
3x300	0,0641	649	585	66,6	8640,0	11379
3x400	0,0486	761	710	76,0	11520,0	15041

FOUR - CORE CABLES:

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²	Ω/km	A	A	mm	kg/km	kg/km
4x1,5	13,3	24	31	11,5	57,6	179
4x,25	7,98	32	40	13,0	96	243
4x4	4,95	42	52	14,4	153,6	326
4x6	3,3	53	64	16,6	230,4	445
4x10	1,91	74	86	19,5	384	658
4x16	1,21	98	112	21,7	614,4	937
4x25	0,78	133	145	24,8	960	1374
4x35	0,554	162	174	27,9	1344	1842
4x50	0,386	197	206	32,7	1920	2578
4x70	0,272	250	254	38,5	2688	3561
4x95	0,206	308	305	42,1	3648	4654
4x120	0,161	359	348	48,1	4608	5896
4x150	0,129	412	392	53,3	5760	7337
4x185	0,106	475	444	59,6	7104	9049
4x240	0,0801	564	517	66,9	9216	11645
4x300	0,0641	649	585	74,1	11520	14434
4x400	0,0486	761	710	84,9	15360	19130

FIVE - CORE CABLES:

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²	Ω/km	A	A	mm	kg/km	kg/km
5x1,5	13,3	24	31	12,4	72	208
5x2,5	7,98	32	40	14,1	120	284
5x4	4,95	42	52	15,7	192	385
5x6	3,3	53	64	18,1	288	527
5x10	1,910	74	86	21,4	480	786
5x16	1,210	98	112	23,8	768	1127
5x25	0,780	133	145	27,3	1200	1662
5x35	0,554	162	174	30,8	1680	2234
5x50	0,386	197	206	36,3	2400	3148
5x70	0,272	250	254	43,0	3360	4368
5x95	0,206	308	305	47,2	4560	5739
5x120	0,161	359	348	53,4	5760	7210
5x150	0,129	412	392	59,7	7200	8974
5x185	0,106	475	444	66,6	8880	11127
5x240	0,0801	564	517	74,6	11520	14277