



RZ1-K

XLPE insulated and HFFR sheathed power cable, rated voltage 0,6/1 kV

APPLICATION

Power cable designed for fixed installation in dry and damp environments. The cables described in this UNE standard are suitable for the transmission and distribution of electrical power in fixed installations, whether protected or unprotected. They are suitable for indoor and outdoor installations, on exposed supports, in conduits, or buried underground.

Suitable for supply systems in an emergency. Appropriate for application in all situations where people and property need to be protected in case of fire. Recommended for public utility buildings with a high concentration of people such as: hotels, shopping malls, hospitals, schools, airports, underground railways, etc. and for industrial complexes like power plants, transformer stations.

TECHNICAL CHARACTERISTICS

CPR class: Dca

Test voltage: 4 kV AC 50 Hz, 5 min. per core

Rated voltage: 0,6/1 kV

Min. bending radius (min):

5xD, D-overall diameter

Min. laying temperature: -15°C

Max. conductor operating temp: 90°C Max.

Short-circuit temperature: 250°C

Flame retardant: IEC 60332-1-2,
IEC 60332-3-24

Halogen free: IEC 60754

Low smoke emission: IEC 61034

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

STANDARD

UNE 21123-4, IEC 60502-1

HD 604 5D (chosen parts)

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:

● Green

Other colours available on request



SINGLE - CORE CABLES:

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY				OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
		IN AIR, IN AC SYSTEM	IN AIR, IN DC SYSTEM	IN EARTH, IN AC SYSTEM	IN EARTH, IN DC SYSTEM			
mm ²	Ω/km	A	A	A	A	mm	kg/km	kg/km
1x10	1,91	77	99	89	136	10,3	96	163,2
1x16	1,21	102	131	115	176	11,5	153,6	230,4
1x25	0,78	138	177	148	229	13,4	240	336,1
1x35	0,554	170	217	177	275	14,8	336	444,5
1x50	0,386	207	265	209	326	16,8	480	607,7
1x70	0,272	263	336	256	400	19,1	672	820,9
1x95	0,206	325	415	307	480	21,3	911,2	1079,7
1x120	0,161	380	485	349	548	20,4	1152	1342,3
1x150	0,129	437	557	393	616	22,8	1440	1660,2
1x185	0,106	507	646	445	698	25,2	1776	2029,4
1x240	0,0801	604	774	517	815	28,4	2304	2594,3
1x300	0,0641	679	901	583	927	31,6	2880	3205,9
1x400	0,0486	811	1060	663	1064	36	3840	4242,1
1x500	0,0384	940	1252	749	1227	40,4	4800	6626,4
1x630	0,0287	1083	1486	843	1421	44,8	6048	8374,2

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.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
2x1,5	13,3	24	31	10,0	28,8	138,1
2x2,5	7,98	32	40	10,8	48,0	173,1
2x4	4,95	42	52	11,8	76,8	222,7
2x6	3,3	53	64	12,8	115,2	283,2
2x10	1,910	74	86	14,4	192,0	397,7
2x16	1,210	98	112	16,2	307,2	559,0
2x25	0,780	133	145	19,2	480,0	824,1
2x35	0,554	162	174	21,4	672,0	1087,0
2x50	0,386	197	206	24,4	960,0	1485,7
2x70	0,272	250	254	27,6	1344,0	2001,2
2x95	0,206	308	305	31,2	1824,0	2649,9
2x120	0,161	359	348	34,6	2304,0	3308,2
2x150	0,129	412	392	38,4	2880,0	4110,1
2x185	0,106	475	444	42,4	3552,0	5043,2
2x240	0,0801	564	517	48,0	4608,0	6511,6

THREE - 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.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
3x1,5	13,3	24	31	10,5	43,2	158,2
3x2,5	7,98	32	40	11,3	72,0	203,2
3x4	4,95	42	52	12,4	115,2	267,6
3x6	3,3	53	64	13,5	172,8	347,4
3x10	1,910	74	86	15,2	288,0	500,2
3x16	1,210	98	112	17,1	460,8	718,3
3x25	0,780	133	145	20,4	720,0	1070,3
3x35	0,554	162	174	22,8	1008,0	1426,5
3x50	0,386	197	206	25,2	1440,0	1959,3
3x70	0,272	250	254	28,9	2016,0	2676,0
3x95	0,206	308	305	32,5	2736,0	3543,1
3x120	0,161	359	348	36,2	3456,0	4434,8
3x150	0,129	412	392	40,5	4320,0	5538,7
3x185	0,106	475	444	44,8	5328,0	6802,9
3x240	0,0801	564	517	50,3	6912,0	8783,8
3x300	0,0641	649	585	55,5	8640,0	10878,4
3x400	0,0486	761	710	64,9	11520,0	14428,2

FOUR - 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.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
4x1,5	13,3	24	31	11,2	57,6	183,6
4x,25	7,98	32	40	12,1	96,0	239,8
4x4	4,95	42	52	13,4	153,6	320,6
4x6	3,3	53	64	14,6	230,4	421,5
4x10	1,910	74	86	16,5	384,0	615,7
4x16	1,210	98	112	18,7	614,4	894,5
4x25	0,780	133	145	22,3	960,0	1341,0
4x35	0,554	162	174	25,0	1344,0	1796,9
4x50	0,386	197	206	28,0	1920,0	2494,2
4x70	0,272	250	254	32,7	2688,0	3419,8
4x95	0,206	308	305	36,1	3648,0	4529,4
4x120	0,161	359	348	40,4	4608,0	5692,3
4x150	0,129	412	392	45,0	5760,0	7123,8
4x185	0,106	475	444	50,0	7104,0	8772,1
4x240	0,0801	564	517	56,2	9216,0	11267,0
4x300	0,0641	649	585	61,9	11520,0	13962,3
4x400	0,0486	761	710	65,3	15360,0	18388,6

FIVE - 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.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
5x1,5	13,3	24	31	12,0	72	211,1
5x2,5	7,98	32	40	13,0	120	279,2
5x4	4,95	42	52	14,4	192	377,1
5x6	3,3	53	64	15,7	288	500,1
5x10	1,910	74	86	17,9	480	737,2
5x16	1,210	98	112	20,3	768	1078,8
5x25	0,780	133	145	24,4	1200	1624,2
5x35	0,554	162	174	27,4	1680	2183,7
5x50	0,386	197	206	31,8	2400	3061,6
5x70	0,272	250	254	36,3	3360	4192,4
5x95	0,206	308	305	41,0	4560	5585,4
5x120	0,161	359	348	45,6	5760	6993,3
5x150	0,129	412	392	51,2	7200	8733,3
5x185	0,106	475	444	56,8	8880	10753,8
5x240	0,0801	564	517	63,6	11520	13872,8

