Câble d'alimentation RZ1-K - 1,5 mm² à 630 mm²

Description

Câble d'alimentation RZ1-K | 0,6/1 kV | LSZH | Multiconducteur

Fonctionnalités clés

Tension nominale
600/1000 volts

Rayon de courbure minimal
5 x diamètre total

Ignifugation
BS EN/IEC 60332-3-10

Limites de température
Plage de température : -15 °C à +90 °C

Couleurs principales

According to HD 308 S2,

Gaine extérieure Colour: Vert, Other colours available on request

Single-cœur: Vert Jaune OR Noir

2-cœur: Brun Bleu

3-cœur: Vert Jaune Brun Bleu OR Noir Brun Troupeau

4-cœur: Vert Jaune Brun Noir Troupeau OR Bleu Brun Noir Troupeau

5-cœur: Vert Jaune Bleu Brun Noir Troupeau

Normes

- IEC 60502-1
- BS EN 60228
- IEC 60332-3-24
- IEC/EN 61034-1/2,
- BS EN/IEC 60332-1-2
- IEC/EN 60754-1/2

Construction

- **Conducteur**: Classe 5 Cuivre toronné flexible
- **Isolation**: Polyéthylène réticulé (XLPE)
- **Gaine**: Faible dégagement de fumée et sans halogène (LSZH)

Laboratoire d'assurance qualité

Laboratoire d'essai et de formation Cleveland Cable
Notre centre d'essai de câbles à la pointe de la technologie garantit que chaque câble répond aux normes de qualité et de conformité les plus strictes grâce à des essais continus et rigoureux. Le cas échéant, les câbles sont testés et certifiés de manière indépendante par BASEC afin de garantir leur conformité totale.

CPR
Cleveland Cable Company s'engage à respecter le règlement sur les produits de construction (CPR). Le cas échéant, tous les câbles fabriqués après le 1er juillet 2017 ont été évalués conformément aux exigences du CPR, avec une documentation complète à l'appui.

Notre engagement en faveur du développement durable

Nous nous engageons à atteindre la neutralité carbone en tant que partenaire commercial, employeur et membre de la communauté.

En pensant et en agissant de manière durable, nous offrons un excellent service à la clientèle tout en réduisant les émissions de carbone en collaboration avec nos clients et nos fournisseurs.

ecovadis
Cleveland Cable Company a été évaluée de manière indépendante par EcoVadis, un fournisseur mondialement reconnu de notations de durabilité des entreprises. Notre score nous place parmi les 35 % des meilleures entreprises évaluées dans le monde, ce qui reflète notre engagement fort en matière de performance environnementale, sociale et éthique.

Câble d'alimentation RZ1-K - 1,5 mm² à 630 mm² - Dimensions

Référence	Conductor Size (mm2)	No Of Cores	Max Resistance at 20°c (Ω/km)	Outside Diameter(mm)	Weight(Kg/Km)	Current Capacity in Air
RZ1K2X1.5	1.5	2	13.3	10.0	138	24
RZ1K3X1/5	1.5	3	13.3	10.5	158	24
RZ1K4X1/5	1.5	4	13.3	11.2	184	24
RZ1K5X1/5	1.5	5	13.3	12.0	211	24
RZ1K2X2.5	2.5	2	7.98	10.8	173	32
RZ1K3X2/5	2.5	3	7.98	11.3	203	32
RZ1K4X2/5	2.5	4	7.98	12.1	240	32
RZ1K5X2/5	2.5	5	7.98	13.0	279	32
RZ1K2X4	4	2	4.95	11.8	223	42
RZ1K3X4	4	3	4.95	12.4	268	42
RZ1K4X4	4	4	4.95	13.4	321	42
RZ1K5X4	4	5	4.95	14.4	377	42
RZ2K1X6	6	2	3.3	12.8	283	53
RZ1K3X6	6	3	3.30	13.5	347	53
RZ1K4X6	6	4	3.30	14.6	422	53
RZ1K5X6	6	5	3.30	15.7	500	53
RZ1K1X10	10	1	1.91	8.6	163	99
RZ1K2X10	10	2	1.91	14.4	192	74
RZ1K3X10	10	3	1.91	15.2	500	74
RZ1K4X10	10	4	1.91	16.5	616	74
RZ1K5X10	10	5	1.91	17.9	737	74
RZ1K1X16	16	1	1.210	9.5	230	131
RZ1K2X16	16	2	1.210	16.2	559	98
RZ1K3X16	16	3	1.21	17.1	718	98
RZ1K4X16	16	4	1.21	18.7	895	98
RZ1K5X16	16	5	1.21	20.3	1079	98
RZ1K1X25	25	1	0.780	11.0	336	177
RZ1K2X25	25	2	0.780	19.2	824	133
RZ1K3X25	25	3	0.780	20.4	1070	133
RZ1K4X25	25	4	0.780	22.3	1341	133
RZ1K5X25	25	5	0.780	24.4	1624	133
RZ1K1X35	35	1	0.554	12.1	445	217
RZ1K2X35	35	2	0.554	21.4	1087	162
RZ1K3X35	35	3	0.554	22.8	1427	162
RZ1K4X35	35	4	0.554	25.0	1797	162
RZ1K5X35	35	5	0.554	27.4	2184	162
RZ1K1X50	50	1	0.386	13.6	608	265

Référence	Conductor Size (mm2)	No Of Cores	Max Resistance at 20°c (Ω/km)	Outside Diameter(mm)	Weight(Kg/Km)	Current Capacity in Air
RZ1K2X50	50	2	0.386	24.4	1486	197
RZ1K3X50	50	3	0.386	25.2	1959	197
RZ1K4X50	50	4	0.386	28.0	2494	197
RZ1K5X50	50	5	0.386	31.8	3062	197
RZ1K1X70	70	1	0.272	15.2	821	336
RZ1K2X70	70	2	0.272	27.6	2001	250
RZ1K3X70	70	3	0.272	28.9	2676	250
RZ1K4X70	70	4	0.272	32.7	3420	250
RZ1K5X70	70	5	0.272	36.3	4192	250
RZ1K1X95	95	1	0.206	16.8	1080	415
RZ1K2X95	95	2	0.206	31.20	2650	308
RZ1K3X95	95	3	0.206	28.9	3543	308
RZ1K4X95	95	4	0.206	36.1	4529	308
RZ1K5X95	95	5	0.206	41.0	5585	308
RZ1K1X120	120	1	0.161	18.4	1342	485
RZ1K2X120	120	2	0.161	34.60	3308	359
RZ1K3X120	120	3	0.161	36.2	4435	359
RZ1K4X120	120	4	0.161	40.4	5692	359
RZ1K5X120	120	5	0.161	45.6	6993	359
RZ1K1X150	150	1	0.129	20.2	1660	557
RZ1K2X150	150	2	0.129	38.4	4110	412
RZ1K3X150	150	3	0.129	40.50	5539	412
RZ1K4X150	150	4	0.129	45.0	7124	412
RZ1K5X150	150	5	0.129	51.2	8733	412
RZ1K1X185	185	1	0.106	22.1	2029	646
RZ1K2X185	185	2	0.106	42.4	5043	475
RZ1K3X185	185	3	0.106	44.8	6803	475
RZ1K4X185	185	4	0.106	50.0	8772	475
RZ1K5X185	185	5	0.106	56.8	10754	475
RZ1K1X240	240	1	0.0801	24.5	2594	774
RZ1K2X240	240	2	0.0801	48.0	6512	564
RZ1K3X240	240	3	0.0801	50.3	8784	564
RZ1K4X240	240	4	0.0801	56.2	11267	564
RZ1K5X240	240	5	0.0801	63.6	13873	564
RZ1K1X300	300	1	0.0641	26.7	3206	901
RZ1K3X300	300	3	0.0641	55.5	10878	649
RZ1K4X300	300	4	0.0641	61.9	13962	649
RZ1K1X400	400	1	0.0486	30.4	4242	1060
RZ1K3X400	400	3	0.0486	64.9	14428	761

Référence	Conductor Size (mm2)	No Of Cores	Max Resistance at 20°c (Ω/km)	Outside Diameter(mm)	Weight(Kg/Km)	Current Capacity in Air
RZ1K4X400	400	4	0.0486	65.3	18389	761
RZ1K1X500	500	1	0.0384	33.7	6626	1252
RZ1K1X630	630	1	0.0287	37.4	8374	1486

Multi core non-armoured 90 °C and 180°C thermosetting insulated flexible cables with sheath Reproduced from BS7671:2018 Wiring Regulations

TABLE 4F2A

CURRENT-CARRYING CAPACITY (Amps)

Ambient temperature: 30 °C
Conductor operating temperature: 90 °C

Conductor cross sectional area	Single-phase AC or DC	Three-phase AC	Single-phase AC or DC
	1 x 2 core cable, with or without protective conductor	1 x 3 core, 4 core or 5 core cable	2 single-core cables, touching
(mm^2)	(A)	(A)	(A)
4	42	37	-
6	55	49	-
10	76	66	-
16	103	89	-
25	136	119	-
35	-	146	200
50	-	177	250
70	-	225	310
95	-	273	369
120	-	316	432
150	-	363	497
185	-	414	564
240	-	487	673
300	-	560	773
400	-	-	924
500	-	-	1062
630	-	-	1242

NOTES:

1 The current ratings tabulated are for cables in free air but may also be used for cables resting on a surface. If the cable is to be wound on a drum on load the ratings should be reduced in accordance with ***NOTE 2*** below and for cables which may be covered, ***NOTE 3 below.***

2 **Flexible cables wound on reeling drums**
The current ratings of cables used on reeling drums are to be reduced by the following factors:

a) Radial type drum
ventilated: 85 %
unventilated: 75 %

b) Ventilated cylindrical type drum
I layer of cable: 85 %
2 layers of cable: 65 %
3 layers of cable: 45 %
4 layers of cable: 35 %

A radial type drum is one where spiral layers of cable are accommodated between closely spaced flanges; if fitted with solid flanges the ratings given above should be reduced and the drum is described as non-ventilated. If the flanges have suitable apertures the drum is described as ventilated.

A ventilated cylindrical cable drum is one where layers of cable are accommodated between widely spaced flanges and the drum and end flanges have suitable ventilating apertures.

3 Where cable may be covered over or coiled up whilst on load, or the air movement over the cable restricted, the current rating should be reduced.

It is not possible to specify the amount of reduction but the table of rating factors for reeling drums can be used as a guide.

4 For 180 °C cables, the rating factors for ambient temperature allow a conductor operating temperature up to 150 °C.
Consult the cable manufacturer for further information.

5 Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).

6 Where it is intended to group a cable in this table with other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).

TABLE 4F2B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 90 °C

Conductor cross-sectional area	Two-core cable or 2 x Single core cables DC	2 core cable, single-phase AC			1 x 3 core, 4 core or 5 core cable, three-phase AC			2 single-core cables, touching Single-phase AC*		
(mm^2)	(mV/Nm)	(mV/Nm)			(mV/Nm)			(mV/Nm)		
4	13.20	13.20			11.10			-		
6	8.50	8.50			7.40			-		
10	5.10	5.10			4.40			-		
16	3.20	3.20			2.70			-		
		r	x	z	r	x	z	r	x	z
25	2.03	2.03	0.175	2.04	1.73	0.150	1.73	-	-	-
35	1.420	-	-	-	1.22	0.150	1.23	1.44	0.21	1.46
50	1.000	-	-	-	0.91	0.145	0.93	1.00	0.21	1.02
70	0.710	-	-	-	0.62	0.140	0.64	0.71	0.20	0.73
95	0.540	-	-	-	0.47	0.135	0.49	0.54	0.195	0.57
120	0.420	-	-	-	0.37	0.135	0.39	0.42	0.190	0.46
150	0.340	-	-	-	0.29	0.130	0.32	0.34	0.190	0.39
185	0.270	-	-	-	0.24	0.130	0.27	0.27	0.190	0.33
240	0.210	-	-	-	0.188	0.130	0.23	0.210	0.185	0.28
300	0.167	-	-	-	0.147	0.125	0.195	0.173	0.180	0.25
400	0.127	-	-	-	-	-	-	0.132	0.175	0.22
500	0.100	-	-	-	-	-	-	0.107	0.170	0.20
630	0.074	-	-	-	-	-	-	0.085	0.170	0.190

NOTES:

1 The voltage drop figures given above are based on a conductor operating temperature of 90 °C and are therefore not accurate when the operating temperature is in excess of 90 C. In the case of the 180 °C cables with a conductor temperature of 150 °C the above resistive values should be increased by a factor of 1.2.

2 *A larger voltage drop will result if the cables are spaced.