

# TOXFREE ZH



# RZ1-K (AS)

The halogen free power cable.

## DESIGN

### Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228

### Insulation

XLPE.

The standard identification is the following:

- 1 x Natural
- 2 x Blue + Brown
- 3 G Blue + Brown + Yellow/green
- 3 x Brown + Black + Grey
- 3 x + 1 x Brown + Black + Grey + Blue (reduced cross section)
- 4 G Brown + Black + Grey + Yellow/green
- 4 x Brown + Black + Grey + Blue
- 5 G Brown + Black + Grey + Yellow/green + Blue

### Outer sheath

LSZH polyolefin outer sheath. Green colour, non-toxic and fire retardant.

## APPLICATIONS

The Toxfree RZ1-K (AS) cable with zero halogens is a safety cable. In case of fire, it does not emit toxic or corrosive gases, thereby protecting public health and avoiding any possible damage to electronic equipment. For this reason, its use is highly recommended in public places such as: hospitals, schools, museums, airports, bus terminals, shops in general, tunnels, the underground, etc., as well as in calculation centres, offices, production plants, laboratories, etc.

### Packaging

Available in rolls (lengths of 50 and 100 m) and coils.



## CHARACTERISTICS

Flexible conductor class 5	Minimum bending radius 5x cable diameter	LSZH	Impact resistance AG2 medium impact	Public places	In conduit
Minimum service temperature: -40°C (Fixed and protected installation)	Meter by meter marking	Low smoke emission: Light transmittance > 60%	Outdoor installation: permanent	Industrial use	
Maximum service temperature 90°C	Flame non-propagation	Low corrosive gases emission	Water resistance AD3 Sprays	Open air	
Maximum short-circuit temperature: 250°C (max. 5 s)	Fire non-propagation	Chemical & oil resistance: acceptable	Buried		

## INSTALLATION CONDITIONS

For further technical data please request this cable's technical datasheet.

Top Cable reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.

## DIMENSIONS

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Cross section (mm <sup>2</sup> )	Diameter (mm)	Weight (Kg/km)	Open Air 30°C (A)	Buried 20°C (A)	Voltage drop (V/A · km)
1 x 2,5	6,1	57	29	29	17,7
1 x 4	6,7	73	40	37	11
1 x 6	7,1	93	53	46	7,32
1 x 10	8,1	136	74	61	4,23
1 x 16	9,1	192	101	79	2,68
1 x 25	11	288	135	101	1,73
1 x 35	12,1	380	169	122	1,23
1 x 50	13,8	520	207	144	0,86
1 x 70	15,9	716	268	178	0,603
1 x 95	17,6	924	328	211	0,457
1 x 120	19,4	1.167	383	240	0,357
1 x 150	21,5	1.456	444	271	0,286
1 x 185	24,1	1.762	510	304	0,235
1 x 240	26,9	2.283	607	351	0,178
1 x 300	29,6	2.851	703	396	0,142
1 x 400	33,8	3.735	823	464	0,108
1 x 500	38	4.845	946	525	0,085
1 x 630	43,1	6.311	1.088	596	0,064
2 x 1,5	8,3	97	26	26	34
2 x 2,5	9,2	127	36	34	20,4
2 x 4	10,2	168	49	44	12,7
2 x 6	11,1	217	63	56	8,45
2 x 10	13	323	86	73	4,89
2 x 16	15,8	490	115	95	3,1
3 G 1,5	9	116	26	26	34
3 G 2,5	9,8	151	36	34	20,4
3 G 4	11	206	49	44	12,7
3 G 6	11,9	269	63	56	8,45
3 G 10	14,1	412	86	73	4,89
3 x 16	16,9	624	100	79	2,68
3 x 25	20,6	953	127	101	1,73
3 x 35	23,4	1.276	158	122	1,23
3 x 50	26,8	1.752	192	144	0,86
3 x 70	31,5	2.436	246	178	0,603
3 x 95	35,5	3.230	298	211	0,457
3 x 120	39,8	4.110	346	240	0,357
3 x 16 + 1 x 10	18	724	100	79	2,68
3 x 25 + 1 x 16	21,8	1.097	127	101	1,73
3 x 35 + 1 x 16	24,1	1.405	158	122	1,23
3 x 50 + 1 x 25	28,1	1.970	192	144	0,86
3 x 70 + 1 x 35	32,6	2.722	246	178	0,603
3 x 95 + 1 x 50	37	3.597	298	211	0,457
3 x 120 + 1 x 70	41,5	4.609	346	240	0,357
3 x 150 + 1 x 70	44,9	5.579	399	271	0,286
3 x 185 + 1 x 95	51,5	6.926	456	304	0,235
3 x 240 + 1 x 120	58,8	9.030	538	351	0,178
4 G 1,5	9,7	136	23	22	29,5
4 G 2,5	10,8	184	32	29	17,7
4 G 4	12	252	42	37	11
4 G 6	13,2	334	54	46	7,32
4 G 10	15,4	513	75	61	4,23
4 x 16	18,7	783	100	79	2,68
4 x 25	23,1	1.204	127	101	1,73
4 x 35	25,5	1.616	158	122	1,23
4 x 50	30,3	2.242	192	144	0,86
4 x 70	35,3	3.119	246	178	0,603
4 x 95	39,4	4.035	298	211	0,457
4 x 120	43,6	5.104	346	240	0,357
4 x 150	49,8	6.569	399	271	0,286
4 x 185	56,5	8.063	456	304	0,235
4 x 240	63,1	10.421	538	351	0,178
5 G 1,5	10,3	159	23	22	29,5
5 G 2,5	11,6	217	32	29	17,7
5 G 4	13	302	42	37	11
5 G 6	14,4	404	54	46	7,32
5 G 10	16,9	627	75	61	4,23
5 G 16	20,4	956	100	79	2,68
5 G 25	25,1	1.469	127	101	1,73
5 G 35	28,1	1.968	158	122	1,23
5 G 50	33,7	2.779	192	144	0,86

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**DIMENSIONS**

Cross section (mm <sup>2</sup> )	Diameter (mm)	Weight (Kg/km)	Open Air 30°C (A)	Buried 20°C (A)	Voltage drop (V/A · km)
5 G 70	39,3	4.046	246	178	0,603
5 G 95	45	5.271	298	211	0,457
7 G 1,5	11,3	200	26	26	33,9
7 G 2,5	12,8	280	36	34	20,4
8 G 1,5	12,4	225	26	26	33,9
8 G 2,5	13,9	315	36	34	20,4
10 G 1,5	13,4	265	26	26	33,9
10 G 2,5	14,9	375	36	34	20,4
12 G 1,5	14,1	305	26	26	33,9
12 G 2,5	17,2	460	36	34	20,4
14 G 1,5	15,8	360	26	26	33,9
14 G 2,5	17,8	505	36	34	20,4
16 G 1,5	16,3	400	26	26	33,9
16 G 2,5	18,5	570	36	34	20,4
19 G 1,5	17	450	26	26	33,9
19 G 2,5	19,5	650	36	34	20,4
24 G 1,5	19,2	550	26	26	33,9
24 G 2,5	24,7	850	36	34	20,4
27 G 1,5	20,4	600	26	26	33,9
27 G 2,5	24,2	890	36	34	20,4

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