

PRODUCT SPECIFICATION

EPB51480

Low voltage power cable

Copper conductors

XLPE insulation

LSZH inner covering

LSZH outer sheath

Construction and testing according standards

EN 60228

UNE 21123-4

Flame retardant – EN 60332-1-2

Fire retardant – EN 50399

IEC 60332-3-24 Cat.C

Halogen free – EN 60754-1

Low acidity and corrosivity – EN 60754-2

Low smoke emission – EN 61034-2

Reaction to fire – EN 50575 (C_{ca}-s1b,d1,a1)

Rated voltage

0,6 / 1 (1,2) kV

Colours

Insulation:

Black (single-core cable)

According HD 308 S2 (2 up to 5 conductors)

Black numbered (>5 conductors)

Outer sheath:

Green

Marking

On the outer sheath, with the following information:

AENOR CABELTE RZ1-K(AS) 0,6/1kV 'n.º of cores' x 'cross-section' Cca-s1b,d1,a1 Year UNE 21123-4 M.M.

Or:

AENOR CABELTE RZ1-K(AS) 0,6/1kV 'n.º of cores' G 'cross-section' Cca-s1b,d1,a1 Year UNE 21123-4 M.M.

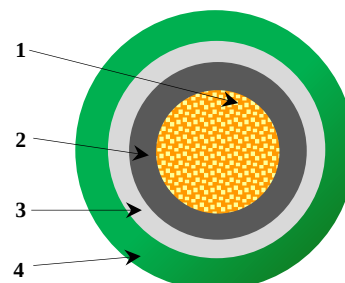
x – Cable without earth conductor

G – Cable with earth conductor (green/yellow)

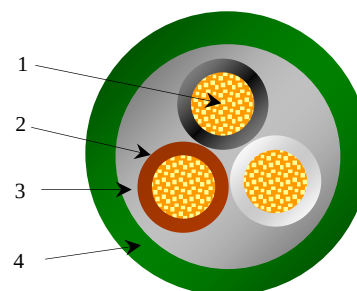
Year – Year of manufacture

M.M. – Metric marking

RZ1-K(AS) 0,6/1kV



Schematic cross-sectional drawing (single core)



Schematic cross-sectional drawing (example for three core cable without earth conductor)

Legend:

- 1 – Flexible plain annealed round copper conductor, class 5, manufactured according to EN 60228.
- 2 – XLPE insulation, type DIX 3.
- 3 – LSZH inner covering.
- 4 – LSZH outer sheath, flame/fire retardant and with low emission of smoke, type DMZ-1.

Additional information

Maximum temperature in conductor, in normal operation – **90°C**

Maximum temperature in conductor, in short-circuit (max. 5 seconds) – **250°C**

Modular lengths – **Drum 500/1000** or **Coil 50m** as specified by customer. Note: other modular lengths can be combined between customer and CABELTE.

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Technical characteristics

Note: TBD = To be defined

	1x10	1x16	1x25	1x35	1x50	1x70
Ahlsell's article number	1095400	1095401	1095402	1095403	1095404	1095405
Approximated outer diameter (mm)	10	11	13	14	16	18
Approximated final weight (kg/km)	190	260	360	460	610	810
Min. bending radius – during installation (mm)	41	46	53	58	64	72
Capacitance – indicative value (µF/km)	0,148	0,176	0,198	0,224	0,251	0,282

	1x95	1x120	1x150	1x185	1x240	1x300
Ahlsell's article number (stock number)	1095406	1095407	1095408	TBD	1095409	1095410
Approximated outer diameter (mm)	20	22	24	26	29	32
Approximated final weight (kg/km)	1060	1320	1620	1930	2490	3020
Min. bending radius – during installation (mm)	80	90	98	132	147	159
Capacitance – indicative value (µF/km)	0,287	0,323	0,329	0,341	0,370	0,396

	1x400	2x1,5	2x2,5	2x4	2x6	2x10
Ahlsell's article number (stock number)	1095411	TBD	TBD	TBD	TBD	TBD
Approximated outer diameter (mm)	36	10	11	12	13	15
Approximated final weight (kg/km)	3940	160	190	240	300	430
Min. bending radius – during installation (mm)	182	30	42	50	54	62
Capacitance – indicative value (µF/km)	0,431	0,132	0,136	0,147	0,162	0,186

	2x16	2x25	2x35	3G1,5	3G2,5	3G4
Ahlsell's article number (stock number)	TBD	TBD	TBD	1095437	1095438	1095439
Approximated outer diameter (mm)	18	22	24	11	12	13
Approximated final weight (kg/km)	640	910	1190	170	220	280
Min. bending radius – during installation (mm)	74	88	97	44	48	52
Capacitance – indicative value (µF/km)	0,206	0,215	0,234	0,125	0,144	0,162

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	3G6	3x10	3x16	3x25	3x35	4G1,5
Ahlsell's article number (stock number)	1095440	TBD	TBD	TBD	TBD	1095441
Approximated outer diameter (mm)	14	16	20	24	26	12
Approximated final weight (kg/km)	350	510	790	1140	1490	200
Min. bending radius – during installation (mm)	57	66	80	94	131	46
Capacitance – indicative value (µF/km)	0,178	0,206	0,226	0,233	0,254	0,124

	4G2,5	4G4	4G6	4G10	4G16	4G25
Ahlsell's article number (stock number)	1095442	1095443	1095444	1095445	1095446	1095447
Approximated outer diameter (mm)	13	14	15	18	22	26
Approximated final weight (kg/km)	250	330	420	620	960	1390
Min. bending radius – during installation (mm)	51	56	61	71	86	129
Capacitance – indicative value (µF/km)	0,141	0,158	0,173	0,197	0,217	0,221

	4G35	4G50	4G70	5G1,5	5G2,5	5G4
Ahlsell's article number (stock number)	1095448	TBD	1095449	1095450	1095451	1095452
Approximated outer diameter (mm)	29	33	38	12	14	15
Approximated final weight (kg/km)	1880	2510	3520	230	300	390
Min. bending radius – during installation (mm)	143	165	190	50	56	60
Capacitance – indicative value (µF/km)	0,238	0,247	0,258	0,122	0,139	0,156

	5G6	5G10	5G16	5G25	5G35
Ahlsell's article number (stock number)	1095453	1095454	1095455	1095456	1095457
Approximated outer diameter (mm)	16	19	24	28	31
Approximated final weight (kg/km)	500	750	1160	1690	2230
Min. bending radius – during installation (mm)	66	78	96	141	156
Capacitance – indicative value (µF/km)	0,169	0,191	0,207	0,211	0,227