

ÖLFLEX® POWER RV-K

Power and control cable with rated voltage 0,6/1 kV for fixed installation



Application

ÖLFLEX® POWER RV-K cables are suitable as power and control cables for fixed installation subject to medium mechanical load conditions. These cables are suitable to permanent indoor and outdoor fixed installations, can be buried in tubes or conduits, and directly in ground⁽¹⁾.

As power and connecting cable for control systems in machine tools, plant engineering and construction, industrial machinery, production and assembly lines, public buildings and similar applications.

Standards

- IEC 60502-1
- UNE 21123-2
- Colour code: acc. to HD 308 S2
- Flame-retardant: IEC/EN 60332-1-2
- CPR: EN 13501-6 & EN 50575
- HD 603-3J: Cold bending and impact test

CPR

- DoP Number: PoliDoP0044
- Range: Define on DoP
- Class: E_{ca}

Design

- Conductor: fine wire strands of class 5 copper, acc. IEC/EN 60228
- Insulation: cross-linked polyethylene (XLPE)
- Stranding: cores are stranded in layers
- Outer sheath: PVC compound ST₂ acc. to IEC 60502-1
- Outer sheath colour: black (similar RAL 9005)
- Outer sheath mark:
“LAPP KABEL STUTTGART ÖLFLEX® POWER RV-K <AZ G/X Q> 0,6/1 kV AENOR CE <batch order> <traceability code> XXXXm”



Technical Data



Temperature (°C)

Fixed installation:
-30 up to 70
During installation:
0 up to 70

Max. conductor temp. (°C):
90

Max. short-circuit conductor temperature (°C):
250 (5 min.)



Minimum bending radius

4 x (OD* ≤ 8 mm)
5 x (8 mm < OD* ≤ 12 mm)
6 x (OD* > 12 mm)



Nominal voltage (U₀/U)

0,6/1 kV (1,5 kV d.c.)



Voltage test

3,5 kV a.c. (5 minutes)

*OD - Outer Diameter

⁽¹⁾ Cables can be directly buried in ground, according with methods of installation are D1 or D2, of the standard IEC 60364-5-52

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Article number	Cond. x section (Nxmm ²)	Current free air 30°C (*) (A)	Current buried 20°C (*) (A)	Nominal outer diameter (mm)	Copper index (kg/km)	Weight approx. (kg/km)
15510001	1x6	54	44	7,3	57,6	102
15510002	1x10	75	58	8,3	96	147
15510003	1x16	100	75	9,3	154	214
15510004	1x25	135	96	11,1	240	314
15510005	1x35	169	115	12,4	336	419
15510006	1x50	207	135	14,2	480	578
15510007	1x70	268	167	16,1	672	795
15510008	1x95	328	197	17,7	912	1.046
15510009	1x120	383	223	19,1	1.152	1.320
15510010	1x150	444	251	21,4	1.440	1.687
15510011	1x185	510	281	24,0	1.776	1.985
15510012	1x240	607	324	26,7	2.304	2.596
15510013	1x300	703	365	30,3	2.880	3.183
15510014	2x4	49	43	10,6	76,8	186
15510015	3G1.5	23	21	9,2	43,2	123
15510016	3G2.5	32	28	10,1	72	169
15510017	3G4	42	36	11,3	115,2	230
15510018	3G6	54	44	12,5	172,8	301
15510019	3G10	75	58	14,3	288	456
15510020	3G16	100	75	16,7	460,8	657
15510021	3G25	127	96	20,3	720	991
15510076	3x25+16	127	96	23,0	742	874
15510077	3x35+16	158	115	25,3	985	1.161
15510078	3x50+25	195	135	30,0	1.442	1.680
15510079	3x70+35	246	167	34,3	1.956	2.352
15510080	3x95+50	298	197	37,9	2.664	3.216
15510081	3x120+50	346	2230	44,0	3.350	3.936
15510084	3x120+70	346	223	45,0	4.128	4.750
15510082	3x150+70	399	251	48,2	4.090	4.992
15510083	3x185+95	456	281	53,9	5.101	6.240
15510053	3x240+1G120	538	324	58,7	8.064	9.220
15510022	4G1.5	23	21	10,7	57,6	168
15510023	4G2.5	32	28	11,8	96	223
15510024	4G4	42	36	13,1	153,6	303
15510025	4G6	54	44	14,4	230,4	399
15510026	4G10	75	58	16,8	384	595
15510027	4G16	100	75	19,3	614,4	859
15510028	4G25	127	96	23,7	960	1.318
15510029	4G35	158	115	26,8	1.344	1.771
15510030	4G50	195	135	31,4	1.920	2.482
15510031	4G70	246	167	35,7	2.688	3.630

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15510032	4G95	298	197	38,2	3.648	4.170
15510049	4G120	346	223	40,5	4.608	5.328
15510050	4G150	399	251	44,6	5.760	7.560
15510051	4G185	456	281	49,3	7.104	8.114
15510052	4G240	538	324	56,6	9.216	10.656
15510033	5G1.5	23	21	11,5	72	186
15510034	5G2.5	32	28	12,7	120	253
15510035	5G4	42	36	14,2	192	350
15510036	5G6	54	44	15,7	288	468
15510037	5G10	75	58	18,4	480	705
15510038	5G16	100	75	21,1	768	1.027
15510039	5G25	127	96	26,1	1.200	1.582
15510040	5G35	158	115	29,4	1.680	2.134
15510041	7G1.5	NA	NA	13,1	100,8	260
15510042	7G2.5	NA	NA	14,5	168	335
15510043	12G1.5	NA	NA	16,2	172,8	362
15510044	12G2.5	NA	NA	18,1	288	506
15510045	19G1.5	NA	NA	18,9	273,6	523
15510046	19G2.5	NA	NA	21,2	456	743
15510047	24G1.5	NA	NA	21,5	345,6	643
15510048	24G2.5	NA	NA	24,2	576	919

(*) For single core: according to IEC 60364-5-52 table B.52.12 installation on the air and table B.52.5 buried.

For multi-core: according to IEC 60364-5-52 table B.52.12 installation on the air and table B.52.3 and B.52.5 buried.