LAPP NORWAY AS

Updated 18. August 2023

RZ1-K 0,6/1kV AC and 0,9/1,8kV DC*

*Applicable core identification for DC systems are considered in accordance with local installation regulations

IEC 60502-1 and based on UNE 21123-4

XLPE insulated and LSOH sheathed flexible power cable

Pictures informative only*

CONSTRUCTION	
Conductors:	annealed copper, flexible conductor class 5 according to IEC 60228
Insulation:	special XLPE compound acc. to IEC 60502-1
Sheath:	thermoplastic halogen - free compound type ST_8 acc. to IEC 60502-1

CHARACTERISTIC		
Colour of sheath:	green or black or grey (other colours available at customer request)	
Core identification:	*(other colours available at customer request)*	
	with protective conductor (G)	**without protective conductor (X)**
1-core:	green-yellow	black
2-core:	-	blue, brown
3-core:	green-yellow, blue, brown	brown, black, grey
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
7 and more:	green-yellow, other cores black with numbering	black with white numbering
Maximum conductor operating temperature:	+90°C	
Lowest ambient temperature for fixed installation:	-40°C	
Lowest installation temperature:	-5°C	
Maximum short-circuit conductor temperature:	+250°C	
Minimum bending radius:	5D for D <= 50 mm, 6D for D > 50 mm; D – overall diameter	
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm^2	

RZ1-K MK-18-08-2023
Replace RZ1-K MK-10-07-2023

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FIRE PERFORMANCE	
▪ **Flame retardant:**	IEC 60332-1-2, IEC 60332-3-24
▪ **Smoke density:**	IEC 61034-2 light transmittance values > 60%
Gases evolved during combustion:	BS EN 60754-2, EN 60754-2, pH ≥ 4,3; conductivity ≤ 2,5 µS/mm BS EN 60754-1 HCL ≤ 0,5 %
▪ **CPR – class reaction to fire (acc EN 50575):**	Dca

APPLICATIONS	
for the supply of electrical energy, in urban grids, building installations, etc. Special for installations where fire and emissions of smoke and toxic fumes create a potential threat. Can be installed in the ground. Not suitable for use in water.	
Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire (EN 50575)
n x mm²	**mm**	**kg/km**	Ω/km	
1x1,5RF	5,4	44	13,3	-
1x2,5RF	5,9	56	7,98	-
1x4RF	6,4	72	4,95	-
1x6RF	6,9	93	3,3	-
1x10RF	7,9	137	1,91	-
1x16RF	9	195	1,21	-
1x25RF	10,5	285	0,78	-
1x35RF	11,5	377	0,554	-
1x50RF	13,4	526	0,386	-
1x70RF	15,4	724	0,272	-
1x95RF	17,7	943	0,206	-
1x120RF	19	1179	0,161	Dca
1x150RF	21,4	1473	0,129	Dca
1x185RF	24,1	1790	0,106	Dca
1x240RF	26	2309	0,0801	Dca
1x300RF	30,6	2926	0,0641	Dca
1x400RF	32,5	3743	0,0486	Dca
1x500RF	37,7	4735	0,0384	Dca

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