



Code

RZ1-AK FLEX-AL/XLPE/HFFR

Voltage Rating

0.6/1 kV

Standards

UNE 21123-4

IEC 60228

EN 61034

EN 50267

EN 60332-3

IEC 60754-1 and 2

ISO 4892

CE Conformity

Conductor

Smoke Density

Halogen Free

Flame Retardant (Cat C)

Halogen Acid Gas Indication - HFFR Cables

UV Resistant - HFFR Cables

Declaration - All our Cables

Reaction to Fire Classification (CPR)

EN 60332-1-2

Flame Retardant

Conductor

Flexible Aluminum Conductor (Class 5)

Insulation

XLPE (Cross-linked Polyethylene)

Filler

Halogen Free Filler

Armour

-

Sheath

Halogen Free Sheath UV

Technical Data

Max. Operating Temperature	:	90°C
Short Circuit Temperature	:	250°C (max.5 sec)
Bending Radius	:	6D (D : Overall Diameter)
Test Voltage	:	3,5 kV

Application:

These halogen-free cables are suitable for transport and permanent installations, protected or unprotected, where low and corrosive gas emission is required in the event of fire, such as public premises, hospitals, school, shopping centres and airports.

They are suitable for indoor and outdoor installations. Their flexibility makes them very appropriate in complex and extremely difficult installations.

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
1x1,5*	5,7	41,4	1000	19,25	-	-
1x2,5*	6,2	48,5	1000	11,55	-	-
1x4*	6,8	59,1	1000	7,22	-	-
1x6*	7,3	69,4	1000	4,81	-	-
1x10	8,4	92,2	1000	3,08	-	-
1x16	9,2	116,1	1000	1,91	-	-
1x25	11,3	167,6	1000	1,20	114	106
1x35	12,3	205,4	1000	0,868	136	130
1x50	13,5	256,6	1000	0,641	162	161
1x70	15,6	329,4	1000	0,443	199	204
1x95	17,7	424,0	1000	0,320	238	252
1x120	19,6	524,7	1000	0,253	272	295
1x150	21,5	637,6	1000	0,206	305	339
1x185	23,9	778,6	1000	0,164	347	395
1x240	27,0	1003,9	1000	0,125	404	472
1x300	29,5	1217,8	1000	0,100	457	547
1x400	33,2	1551,7	1000	0,0778	525	643
1x500	37,6	1924,9	500	0,0605	601	754
1x630	41,7	2429,8	500	0,0469	687	882

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
2x1,5*	9,8	127,2	1000	19,25	-	-
2x2,5*	10,7	152,3	1000	11,55	-	-
2x4*	12,0	190,8	1000	7,22	-	-
2x6*	12,9	226,1	1000	4,81	-	-
2x10	15,2	315,3	1000	3,08	-	-
2x16	16,9	402,0	1000	1,91	-	-
2x25	21,9	645,9	1000	1,20	112	102
2x35	24,0	794,2	1000	0,868	135	126
2x50	26,7	993,0	1000	0,641	158	149
2x70	31,1	1318,9	1000	0,443	196	191
2x95	35,1	1686,7	1000	0,320	234	234
2x120	39,0	2080,8	1000	0,253	268	273
2x150	42,7	2529,3	1000	0,206	300	311
2x185	47,5	3100,4	1000	0,164	342	360
2x240	53,6	3977,3	500	0,125	398	427

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
3x1,5*	10,3	137,8	1000	19,25	-	-
3x2,5*	11,2	166,3	1000	11,55	-	-
3x4*	12,6	209,8	1000	7,22	-	-
3x6*	13,6	251,1	1000	4,81	-	-
3x10	16,3	354,2	1000	3,08	-	-
3x16	18,1	457,1	1000	1,91	-	-
3x25	23,3	732,9	1000	1,20	112	102
3x35	25,7	907,4	1000	0,868	135	126
3x50	28,6	1142,7	1000	0,641	158	149
3x70	33,2	1512,4	1000	0,443	196	191
3x95	37,6	1941,6	1000	0,320	234	234
3x120	41,8	2397,2	1000	0,253	268	273
3x150	45,8	2928,1	500	0,206	300	311
3x185	51,0	3586,3	500	0,164	342	360
3x240	57,6	4615,0	500	0,125	398	427
3x300	63,2	5578,0	250	0,100	457	527
3x400	71,3	7120,5	250	0,0778	529	600

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
4x1,5*	11,0	157,6	1000	19,25	-	-
4x2,5*	12,1	192,1	1000	11,55	-	-
4x4*	13,6	244,6	1000	7,22	-	-
4x6*	14,8	295,4	1000	4,81	-	-
4x10	17,8	424,5	1000	3,08	-	-
4x16	20,0	552,4	1000	1,91	-	-
4x25	25,7	887,9	1000	1,20	112	102
4x35	28,3	1105,1	1000	0,868	135	126
4x50	31,5	1398,7	1000	0,641	158	149
4x70	36,7	1858,7	1000	0,443	196	191
4x95	41,6	2388,4	1000	0,320	234	234
4x120	46,4	2954,4	500	0,253	268	273
4x150	50,9	3619,4	500	0,206	300	311
4x185	56,7	4434,6	500	0,164	342	360
4x240	64,1	5724,3	250	0,125	398	427
4x300	70,3	6930,2	250	0,100	457	527
4x400	79,3	8861,9	250	0,0778	529	600
4x500	90,2	11187,8	250	0,0605	609	695

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
5x1,5*	12,7	198,7	1000	19,25	-	-
5x2,5*	13,9	243,9	1000	11,55	-	-
5x4*	15,6	312,8	1000	7,22	-	-
5x6*	17,0	386,8	1000	4,81	-	-
5x10	20,0	533,9	1000	3,08	-	-
5x16	22,2	689,3	1000	1,91	-	-
5x25	28,1	1082,5	1000	1,20	112	102
5x35	31,0	1357,0	1000	0,868	135	126
5x50	34,7	1742,3	1000	0,641	158	149
5x70	40,5	2331,7	500	0,443	196	191
5x95	46,0	2991,3	500	0,320	234	234
5x120	51,3	3720,9	500	0,253	268	273
5x150	56,4	4579,9	500	0,206	300	311
5x185	62,8	5627,7	250	0,164	342	360
5x240	71,1	7288,2	250	0,125	398	427
5x300	78,0	8826,9	250	0,100	457	527
5x400	88,2	11340,6	250	0,0778	529	600
5x500	100,2	14299,2	250	0,0605	609	695

Note 1:

* Conductor resistance calculated theoretically. Conductor resistances are taken from EN 60228 Class-2 Aluminum values.

Note 2:

Current carrying capacities are valid at 30°C ambient temperature.