



U-1000 ARV FV

Power cable 0,6/1 kV with Al conductors, XLPE insulated and PVC sheathed

APPLICATION

Distribution power cable for static application, mostly in ground, but also in water, within facilities, in cable canals, in concrete. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Applied in conditions requiring protection against heavier mechanical damages, but where cables are not exposed to heavier tensile strain.

TECHNICAL CHARACTERISTICS

Test voltage: 4 Kv
 Rated voltage: 0,6/1 kV
 Bending radius (min): single-core- 15D;
 multicore- 12D
 Min. laying temperature: -5°C
 Max. working temperature: 90°C
 Max. short-circuit temperature: 250°C

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228
 Insulation: : XLPE compound
 Bedding: Extruded elastomere or plastomere compound or plastic tape
 Armour: Two galvanized steel tapes
 Sheat: PVC compound

STANDARD

NF C 32-322

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black
 3-core (a): ● Green/Yellow ● Brown ● Blue
 3-core (b): ● Black ● Brown ● Grey
 4-core (a): ● Green/Yellow ● Brown ● Black ● Grey
 4-core (b): ● Blue ● Brown ● Black ● Grey
 5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Black

Other colours available on request

CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
1x50	0,641	161	162	16,4	145,0	371,0
1x70	0,443	204	199	18,0	203,0	453,0
1x95	0,32	252	238	19,8	275,5	586,0
1x120	0,253	295	272	21,4	348,0	685,0
1x150	0,206	339	305	23,4	435,0	817,0
1x185	0,164	395	347	25,3	536,0	957,0
1x240	0,125	472	404	27,9	696,0	1203,0
1x300	0,100	547	457	30,3	870,0	1434,0
1x400	0,0778	643	525	34,0	1160,0	1815,0
3x10	3,08	-	-	18,0	81	504,7
3x16	1,910	-	-	19,9	129,6	637,0
3x25	1,200	97	75	23,2	202,5	858,6
3x35	0,868	120	90	25,6	283,5	1038,9
3x50	0,641	146	106	30,2	405,0	1555,9
3x70	0,443	187	130	34,5	567,0	1959,9
3x95	0,320	227	154	38,3	769,5	2427,8
3x120	0,253	263	174	42,0	972,0	2951,4
3x150	0,206	304	197	46,3	1215,0	3567,5
3x185	0,164	347	220	50,6	1498,5	4223,9
3x240	0,125	409	253	56,7	1944,0	5165,2
3x300	0,100	471	286	62,3	2340,0	6263,6
4x10	3,080	-	-	19,3	108,0	565,8
4x16	1,910	-	-	21,5	172,8	720,9
4x25	1,200	97	75	25,1	270,0	980,8
4x35	0,868	120	90	27,8	378,0	1196,5
4x50	0,641	1446	106	32,8	540,0	1769,0
4x70	0,443	187	130	37,5	756,0	2285,6
4x95	0,320	227	154	41,7	1026,0	2883,7
4x120	0,253	263	174	45,8	1296,0	3417,5
4x150	0,206	304	197	51,4	1620,0	4203,9
4x185	0,164	347	220	56,2	1998,0	4972,2
4x240	0,125	409	253	62,6	2592,0	6187,5
5x10	3,080	-	-	20,7	135,0	628,0
5x16	1,910	-	-	23,1	216,0	806,9
5x25	1,200	97	75	27,2	337,5	1105,7
5x35	0,868	120	90	30,2	472,5	1357,3
5x50	0,641	1446	106	35,6	675,0	1986,2
5x70	0,443	187	130	40,7	945,0	2583,4
5x95	0,320	227	154	45,4	1282,5	3268,0
5x120	0,253	263	174	50,0	1620,0	3890,7
5x150	0,206	304	197	56,0	2025,0	4799,7

Current rating for multicore cable installed in open air, ambient temperature = 30°C.

Current rating for multicore cable buried in ducts, soil temperature = 20°C, depth of burial = 0,7m, soil thermal resistivity = 2,5K.m/W.