



# ARG16OM16

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

## APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc., where fire prevention safety measures are requested, for elevated electricity and thermic strains.

## CONSTRUCTION

Conductors: Al, class 2 according to EN 60228  
 Insulation: XLPE compound  
 Bedding: Extruded elastomere or plastomere LSOH compound  
 Sheath: LSOH compound M16 quality, green

## CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

- 2-core: ● Brown ● Blue
- 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:

- Green

*Other colours available on request*

## TECHNICAL CHARACTERISTICS

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

## STANDARD

CEI 20-13

## CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY IN AIR, 30°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	CURRENT CAPACITY BURIED, 20°C		CURRENT CAPACITY BURIED PIPE, 20°C		OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm <sup>2</sup>	Ω/km	mm	mm	A	A	A	A	A	A	mm	kg/km
						K=1	K=1,5	K=1	K=1,5		
2x16	1,910	0,7	1,8	70	64	98	89	75	70	17,1	431
2x25	1,200	0,9	1,8	102	88	119	110	95	88	20,4	604
2x35	0,868	0,9	1,8	136	110	141	131	115	106	22,8	756
2x50	0,641	1,0	1,8	164	131	167	154	134	124	25,2	1007
2x70	0,443	1,1	1,9	218	175	204	189	173	160	28,9	1312
2x95	0,320	1,1	2,0	261	209	245	226	196	181	32,5	1659
2x120	0,253	1,2	2,1	310	250	277	256	238	220	36,7	2073
2x150	0,206	1,4	2,3	350	280	313	289	250	231	40,5	2558
2x185	0,164	1,6	2,4	415	334	350	324	300	278	44,8	3148
2x240	0,125	1,7	2,6	490	392	413	382	331	306	50,3	3945
2x300	0,100	1,8	2,8	567	-	454	420	400	370	55,5	4780

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY IN AIR, 30°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	CURRENT CAPACITY BURIED, 20°C		CURRENT CAPACITY BURIED PIPE, 20°C		OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm <sup>2</sup>	Ω/km	mm	mm	A	A	A	A	A	A	mm	kg/km
						K=1	K=1,5	K=1	K=1,5		
3x16	1,910	0,7	1,8	70	64	98	89	75	70	17,1	475
3x25	1,200	0,9	1,8	102	88	119	110	95	88	20,4	674
3x35	0,868	0,9	1,8	136	110	141	131	115	106	22,8	846
3x50	0,641	1,0	1,8	164	131	167	154	134	124	25,2	715
3x70	0,443	1,1	1,9	218	175	204	189	173	160	28,9	955
3x95	0,320	1,1	2,0	261	209	245	226	196	181	32,5	1234
3x120	0,253	1,2	2,1	310	250	277	256	238	220	36,2	1528
3x150	0,206	1,4	2,3	350	280	313	289	250	231	40,5	1910
3x185	0,164	1,6	2,4	415	334	350	324	300	278	44,8	2331
3x240	0,125	1,7	2,6	490	392	413	382	331	306	50,3	2926
3x300	0,100	1,8	2,8	567	-	454	420	400	370	55,5	3650

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY IN AIR, 30°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	CURRENT CAPACITY BURIED, 20°C		CURRENT CAPACITY BURIED PIPE, 20°C		OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm <sup>2</sup>	Ω/km	mm	mm	A	A	A	A	A	A	mm	kg/km
						K=1	K=1,5	K=1	K=1,5		
3x35+25	0,868/1,200	0,9	1,8	136	110	141	131	115	106	25,5	1701
3x50+25	0,641/1200	1,0	1,9	164	131	167	154	134	124	28,4	2260
3x70+35	0,443/0,868	1,1	2,0	218	175	204	189	173	160	32,6	3098
3x95+50	0,320/0,641	1,1	2,1	261	209	245	226	196	181	36,6	4111
3x120+70	0,253/0,443	1,2	2,3	310	250	277	256	238	220	40,9	5214
3x150+95	0,206/0,320	1,4	2,4	350	280	313	289	250	231	45,7	6567
3x185+95	0,164/0,320	1,6	2,6	415	334	350	324	300	278	49,6	7875
3x240+150	0,125/0,206	1,7	2,8	490	392	413	382	331	306	56,8	10367

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY IN AIR, 30°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	CURRENT CAPACITY BURIED, 20°C		CURRENT CAPACITY BURIED PIPE, 20°C		OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm <sup>2</sup>	Ω/km	mm	mm	A	A	A	A	A	A	mm	kg/km
						K=1	K=1,5	K=1	K=1,5		
4x16	1,910	0,7	1,8	70	64	98	89	75	70	18,7	549
4x25	1,200	0,9	1,8	102	88	119	110	95	88	22,3	781
4x35	0,868	0,9	1,8	136	110	141	131	115	106	25,0	989
4x50	0,641	1,0	1,9	164	131	167	154	134	124	28,0	922
4x70	0,443	1,1	2,0	218	175	204	189	173	160	32,7	1241
4x95	0,320	1,1	2,1	261	209	245	226	196	181	36,1	1599
4x120	0,253	1,2	2,2	310	250	277	256	238	220	40,2	1982
4x150	0,206	1,4	2,4	350	280	313	289	250	231	45,0	2476
4x185	0,164	1,6	2,6	415	334	350	324	300	278	50,0	3050
4x240	0,125	1,7	2,8	490	392	413	382	331	306	56,2	3879
4x300	0,100	1,8	3,0	567	-	454	420	400	370	61,9	4771

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY IN AIR, 30°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	CURRENT CAPACITY BURIED, 20°C		CURRENT CAPACITY BURIED PIPE, 20°C		OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm <sup>2</sup>	Ω/km	mm	mm	A	A	A	A	A	A	mm	kg/km
						K=1	K=1,5	K=1	K=1,5		
5x16	1,910	0,7	1,8	70	64	98	89	75	70	20,3	634
5x25	1,200	0,9	1,8	102	88	119	110	95	88	24,4	906
5x35	0,868	0,9	1,8	136	110	141	131	115	106	27,4	1153
5x50	0,641	1,0	2,0	164	131	167	154	134	124	31,8	1596
5x70	0,443	1,1	2,1	218	175	204	189	173	160	36,3	2099
5x95	0,320	1,1	2,3	261	209	245	226	196	181	41,0	2747
5x120	0,253	1,2	2,4	310	250	277	256	238	220	45,6	3371
5x150	0,206	1,4	2,6	350	280	313	289	250	231	51,2	4169

Permissible current rating values are according to:

- three-phase circuit
- laying depth of 0,8 m for buried cables
- K = 1 - resistivity of the ground equal to 1,0 K·m/W
- K = 1,5 - resistivity of the ground equal to 1,5 K·m/W