

0.6 / 1 kV PVC insulated single core, aluminium conductor cables

R: Stranded Conductor Rigid

Standards: IEC 60502 - 1, VDE 0276 -603

Technical Data

Max. operating temperature : 70 °C
 Max. short circuit temperature : (max. 5 sec.)
 Cross section ≤ 300 mm² : 160 °C
 Cross section > 300 mm² : 140 °C
 Rated voltage : 0.6/1 kV
 Min. bending radius : 12 x D
 D : Cable outer diameter

Application

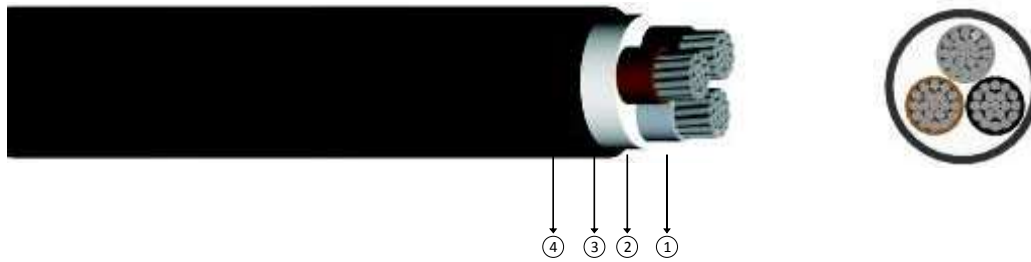
Indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

Construction

- 1 Stranded aluminium conductor
- 2 PVC insulation
- 3 PVC outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES					
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)			
mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C		In air at 30 °C	
					***	**	***	**
1x16	10.0	130	1000	1.91	75	84	80	66
1x25	11.5	160	1000	1.20	125	105	87	75
1x35	12.5	200	1000	0.868	151	127	131	113
1x50	14.0	280	1000	0.641	179	151	160	138
1x70	16.0	350	1000	0.443	218	186	202	174
1x95	18.0	450	1000	0.320	261	223	249	210
1x120	20.0	550	1000	0.253	297	254	291	244
1x150	22.0	700	1000	0.206	332	285	333	281
1x185	24.0	800	1000	0.164	376	323	384	320
1x240	27.0	1050	1000	0.125	437	378	460	378
1x300	30.0	1300	1000	0.100	494	427	530	433
1x400	34.0	1700	1000	0.0778	572	496	642	523
1x500	37,5	2050	1000	0.0605	649	562	744	603

Note : Current carrying capacities are valid under the following conditions;
 In ground : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
 In air : 30 °C, load factor 1.0
 *** : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm
 ** : Trefoil formation
 Number of system : 1



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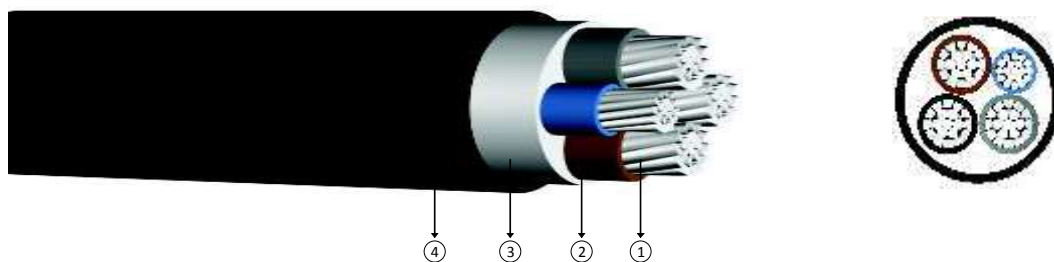
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Construction

- 1 Stranded aluminium conductor
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DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)	
mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
3x16	20.0	500	1000	1.91	70	65
3x25	24.0	800	1000	1.20	99	83
3x35	26.0	950	1000	0.868	118	102
3x50	29.5	1220	1000	0.641	142	124
3x70	33.5	1640	1000	0.443	176	158
3x95	38.0	2140	1000	0.320	211	190
3x120	47.0	2500	1000	0.253	242	221
3x150	46.0	3100	1000	0.206	270	252
3x185	51.0	3800	500	0.164	308	289
3x240	58.0	4900	500	0.125	363	339
3x300	64.0	5900	500	0.100	412	377
3x400	71.0	7600	500	0.0778	475	444

Note : Current carrying capacities are valid under the following conditions;
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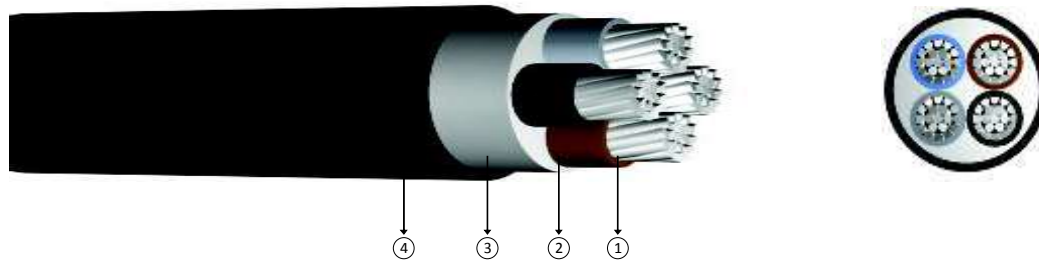
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mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
3x16+10	21.0	550	1000	1.91	70	65
3x25+16	25.0	900	1000	1.20	99	83
3x35+16	27.0	1000	1000	0.868	118	102
3x50+25	32.0	1400	1000	0.641	142	124
3x70+35	36.0	1800	1000	0.443	176	158
3x95+50	41.0	2400	1000	0.320	211	190
3x120+70	45.5	2900	1000	0.253	242	221
3x150+70	49.5	3450	1000	0.206	270	252
3x185+95	55.0	4250	500	0.164	308	289
3x240+120	61.5	5500	500	0.125	363	339
3x300+150	68.0	6550	500	0.100	412	377
3x400+185	76.5	8500	500	0.0778	475	444

Note : Current carrying capacities are valid under the following conditions;
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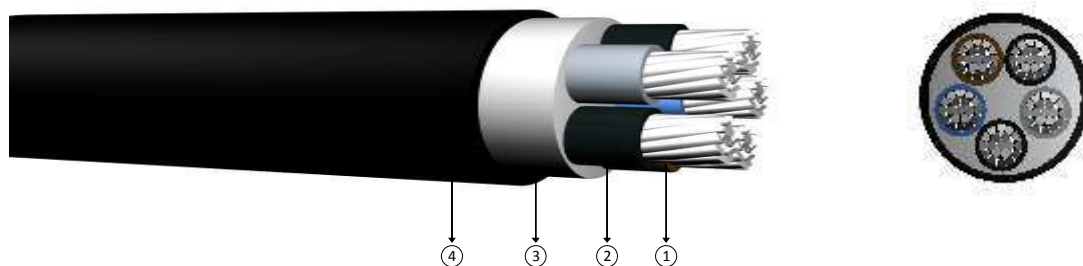
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mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
4x16	22.0	600	1000	1.91	70	65
4x25	26.0	950	1000	1.20	99	83
4x35	29.0	1150	1000	0.868	118	102
4x50	34.0	1600	1000	0.641	142	124
4x70	38.5	2050	1000	0.443	176	158
4x95	43.5	2650	1000	0.320	211	190
4x120	48.0	3200	1000	0.253	242	221
4x150	53.0	3950	1000	0.206	270	252
4x185	59.0	4900	500	0.164	308	289
4x240	66.0	6150	500	0.125	363	339
4x300	72.5	7500	500	0.100	412	377
4x400	82.5	9750	500	0.0778	475	444

Note : Current carrying capacities are valid under the following conditions;
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 In air : 0.7 : 30 °C, load factor 1.0
 Number of system : 1



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mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
5x6	18.0	400	1000	4.87	-	-
5x10	21.0	550	1000	3.08	-	-
5x16	24.0	700	1000	1.91	70	65
5x25	29.0	1100	1000	1.20	99	83
5x35	31.0	1350	1000	0.868	118	102
5x50	36.0	1800	1000	0.641	142	124
5x70	41.0	2400	1000	0.443	176	158
5x95	48.0	3250	1000	0.320	211	190
5x120	52.0	3850	1000	0.253	242	221
5x150	57.0	4750	1000	0.206	270	252
5x185	63.0	5850	500	0.164	308	289
5x240	71.0	7400	500	0.125	363	339
5x300	78.0	9100	500	0.100	412	377
5x400	89.0	11550	500	0.0778	475	444

Note : Current carrying capacities are valid under the following conditions;
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 In air : 0.7 : 30 °C, load factor 1.0
 Number of system : 1