

FKKJ/MCMK 0,6/1kV

25÷16mm²

SS 424 14 18, HD603-3L, SFS 4880, HD 603 S1-3F

**PVC insulated and PVC sheathed power cable
with concentric copper conductor**



CONSTRUCTION

Conductors:	copper annealed circular compacted stranded conductor class 2 (RM) or stranded sector – shaped conductor class 2 (SM) acc. to EN 60228
Insulation:	special PVC compound type DIV11 acc. to HD 603.1
Cable core:	Insulated conductors are twisted together with eventually central filler
Inner covering:	PVC tape
Concentric conductor:	round copper wires and copper tape
Sheath:	special PVC compound type DMV19 acc. to HD 603.1

CHARACTERISTIC

Colour of sheath:	black
Core identification:	HD 308 S2
1-core:	black
2-core:	blue, brown
3-core:	brown, black, grey
4-core:	blue, brown, black, grey
5-core:	blue, brown, black, grey, black
Maximum conductor operating temperature:	+70°C
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-15°C
Maximum short-circuit conductor temperature:	+ 160°C
Minimum bending radius:	15 x D single core cables, 12 x D multicore cables, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ²
Test voltage:	3,5kV AC 50Hz, 5min
Current of short-circuit (1 sec):	up to 300mm ² 115 x nominal cross section conductor (A) above 300mm ² 103 x nominal cross section conductor (A)
Flame retardant:	IEC 60332-1-2 (SS 424 14 75 F3), IEC 60332-3-24 cat. C (SS 424 14 75 F4C)
The product is conformed with the RoHS Directive 2002/95/CE, Low-Voltage Directive 73/23/EEC and 93/68/ECC	

FIRE PERFORMANCE

Flame retardant:	IEC 60332-1-2 (SS 424 14 75 F3), IEC 60332-3-24 cat. C (SS 424 14 75 F4C)
▪ CPR – class reaction to fire (acc EN 50575):	Eca

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APPLICATIONS

PVC insulated and sheathed power cables for the supply of electrical energy. Special for installations in the open air, in underground and water, indoors, in cable ducts. The concentric conductor is allowed to use as neutral, protective or earthed conductor. Simultaneously, this also is permitted to apply as a screen for example earth-connected protection against contact.

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	kg/km	Ω/km
1x25RM/16	13,8	502	0,727/1,15
1x35RM/16	14,9	600	0,524/1,15
1x50RM/25	16,6	824	0,387/0,727
1x70RM/35	18,1	1127	0,268/0,524
1x95RM/50	20,7	1546	0,193/0,387
1x120RM/50	22,1	1783	0,153/0,387
1x150RM/50	24,3	2085	0,124/0,387
1x185RM/50	26,4	2470	0,0991/0,387
1x240RM/70	31,8	3310	0,0754/0,268
2x25RM/16	24,5	990	0,727/1,15
2x35RM/16	26,6	1216	0,524/1,15
3x25RM/16	25,8	1249	0,727/1,15
3x25RM/25	25,8	1333	0,727/0,727
3x35RM/16	28	1561	0,524/1,15
3x35RM/35	28	1739	0,524/0,524
3x35SM/16	25,3	1465	0,524/1,15
3x35SM/35	25,3	1642	0,524/0,524
3x50SM/25	28,3	1975	0,387/0,727
3x50SM/50	28,3	2199	0,387/0,387
3x70SM/35	31,5	2705	0,268/0,524
3x70SM/70	32,2	3034	0,268/0,268
3x95SM/50	35,4	3676	0,193/0,387
3x95SM/95	36,3	4110	0,193/0,193
3x120SM/120	39,9	5106	0,153/0,153
3x120SM/70	39	4635	0,153/0,268
3x150SM/70	43	5543	0,124/0,268
3x185SM/95	47,9	6945	0,0991/0,193
3x240SM/120	54,2	8999	0,0754/0,153
4x25RM/16	27,9	1529	0,727/1,15
4x35RM/16	30,5	1935	0,524/1,15
4x35SM/16	28	1851	0,524/1,15
4x50SM/25	31,7	2516	0,387/0,727

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n x mm ²	mm	kg/km	Ω/km
4x70SM/35	35,2	3443	0,268/0,524
4x95SM/50	40,1	4715	0,193/0,387
4x120SM/70	44,2	5900	0,153/0,268
4x150SM/70	49,2	7116	0,124/0,268
4x185SM/95	53,7	8860	0,0991/0,193
4x240SM/120	61	11529	0,0754/0,153
4x300SM/150	66,4	14200	0,0601/0,124

Current ratings*

Operating temperature at conductor 70°C; ambient air temperature 30°C, ground temperature 20°C

Installation					
Number of loaded cores	3		3		3
	laying in ground			laying in air	
Cross-section, mm ²	Current ratings in Ampere (A)				
25	133	139	108	119	
35	160	166	132	146	
50	190	196	160	177	
70	234	238	202	221	
95	280	281	249	270	
120	319	315	289	310	
150	357	347	329	350	
185	402	385	377	399	
240	463	432	443	462	

The values are referred to the following basic conditions:

Laying in ground		Laying in air	
Ground temperature at installation depth:	20°C	Ambient temperature:	30°C
Load factor:	0,7	Load factor:	1,0
Soil-thermal resistivity of moist area:	1,0 K · m/W	Arrangement: free in air, protection against direct solar radiation, no external heat sources, unrestricted dissipation of heat.	
Soil-thermal resistivity of dry area:	2,5 K · m/W		
Laying depth:	0,7 m		

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Correction factors for various ambient air temperatures

Ambient temperature, °C	10	15	20	25	30	35	40	45	50
Rating factor	1,22	1,17	1,12	1,06	1,00	0,94	0,87	0,79	0,71

* As defined in DIN VDE 0276-603, DIN VDE 0276-627, HD 603 S1, HD 627 S1.

Conversion factors for deviating ambient temperature defined in DIN VDE 0298 part 4.



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