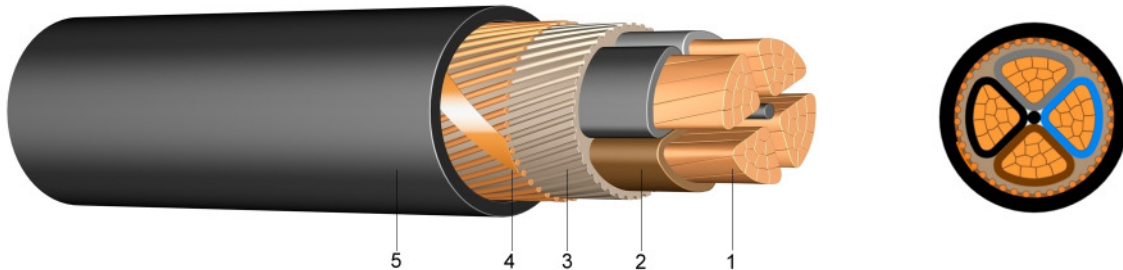


PCV Insulated Cable with Concentric Conductor

Application:

In dry, humid and wet locations, cable ducts, outdoors, underground and in water.



Construction:

- 1 solid or stranded bare copper wire
- 2 core insulation of polyvinylchloride (PVC)
- 3 PVC core covering
- 4 concentric conductor of copper wires and copper tape applied helically
- 5 outer sheath of polyvinylchloride (PVC), black

According to:

DIN VDE 0276-603
 HD 627 S1:1996 part 1 4H1, 4H2.7H
 DIN EN 60228 class 1 and 2 (construction)
 HD 308 S2 (core identification)

Technical data:

Nominal voltage U ₀ /U		[V]	600 / 1000 Volt
Test voltage		[V] _{AC}	4000
Temperature range	in motion		- 5°C till +70°C
	fixed		-20°C till +70°C
Operating temperature	short circuit	°C	160
Short circuit time	max.	[sec]	5
Bending radius	one time / fixed	x diameter	12
Bending radius	in motion	x diameter	15
Flammability	standard		EN 60332-1-2

Number of cores and nominal cross section mm ²	Copper figure kg/km	Overall diameter appr. mm	Weight appr. kg / km	Current carrying capacity	
				ground A	air A
2 x 10 RE/ 10	325	19	660	79	60
3 x 10 RE/ 10	425	20	760	79	60
3 x 16 RE/ 16	670	22	1.040	102	80
3 x 25 RM/ 16	940	26	1.490	133	108
3 x 25 RM/ 25	1.045	26	1.580	133	108
3 x 35 SM/ 16	1.240	27	1.800	160	132
3 x 35 SM/ 35	1.460	29	1.880	160	132
3 x 50 SM/ 25	1.795	30	2.260	190	160
3 x 50 SM/ 50	2.083	31	2.460	190	160
3 x 70 SM/ 35	2.510	33	3.060	234	202
3 x 70 SM/ 70	2.913	34	3.310	234	202
3 x 95 SM/ 50	3.433	38	4.080	280	249
3 x 95 SM/ 95	3.949	40	4.510	280	249
3 x 120 SM/ 70	4.413	42	5.040	319	289
3 x 120 SM/120	4.985	43	5.490	319	289

Datasheet Version 1/2009

Number of cores and nominal cross section	Copper figure	Overall diameter	Weight	Current carrying capacity ground	Current carrying capacity air
mm²	kg/km	appr. mm	appr. kg / km	A	A
3 x 150 SM/ 70	5.313	46	6.040	357	329
3 x 150 SM/150	6.219	47	6.750	357	329
3 x 185 SM/ 95	6.649	51	7.510	402	377
3 x 240 SM/120	8.585	57	9.640	463	377
4 x 10 RE/ 10	525	21	890	79	60
4 x 16 RE/ 16	829	23	1.240	102	80
4 x 25 RM/ 16	1.190	28	1.800	133	108
4 x 35 SM/ 16	1.590	28	2.130	160	132
4 x 50 SM/ 25	2.295	33	2.870	190	160
4 x 70 SM/ 35	3.210	36	3.870	234	202
4 x 95 SM/ 50	4.383	43	5.303	280	249
4 x 120 SM/ 70	5.613	46	6.380	319	289
4 x 150 SM/ 70	6.813	51	7.730	357	329
4 x 185 SM/ 95	8.499	57	9.770	402	377
4 x 240 SM/120	10.913	64	12.540	463	443