

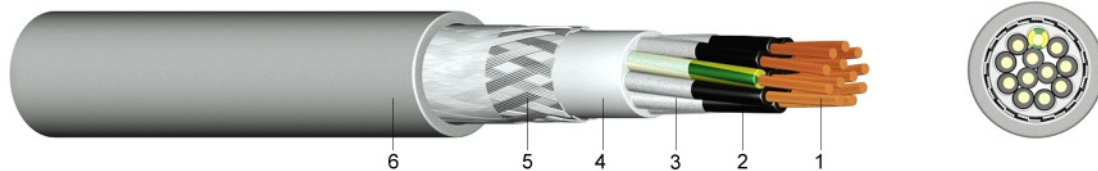
Datasheet S 80 C

Version 1/2009

PVC Cable Chain with Copper Braiding

Application:

The flexible cable chain cable S 80 C is best suited for the application in moving machine parts, industrial robots, wood and packaging machines, production lines, machine tools, cable chains and automation systems. The tinned copper braiding optimises protection against high-frequency external interference.



Construction:

- 1 fine-stranded bare copper
- 2 core insulation of polyvinylchloride (PVC)
- 3 cotton binding
- 4 inner sheath
- 5 screen of tinned copper braiding
- 6 outer sheath of polyvinylchloride (PVC), grey or black

According to:

adapted to DIN VDE 0281
 DIN EN 60228 class 6 (construction)
 core identification JZ: 1 core green/yellow, other cores black with figures
 core identification OZ: every core black with figures

Technical data:

Nominal voltage U ₀ /U		[V]	300 / 500 Volt
Test voltage at 50 Hz	core / core	[V] _{AC}	2500
	core / screen	[V] _{AC}	1000
Temperature range	in motion		- 5 °C till +70 °C
	fixed		-40 °C till +70 °C
Operating temperature	short circuit	°C	150
Short circuit time	max.	[sec]	5
Bending radius	one time / fixed	x diameter	5,0
Bending radius	in motion	x diameter	7,5
Flammability	standard		EN 60332-1-2

Number of cores and nominal cross section mm ²	Copper figure kg/km	Wire diameter mm	Overall diameter appr. mm	Weight appr. kg / km
3 x 0,5	58	0,16	8,8	113
4 x 0,5	69	0,16	9,5	132
5 x 0,5	78	0,16	10,2	154
12 x 0,5	132	0,16	14,3	302
18 x 0,5	199	0,16	17,2	429
2 x 0,75	58	0,16	8,8	113
3 x 0,75	67	0,16	9,4	132
4 x 0,75	83	0,16	9,9	153
5 x 0,75	96	0,16	11,0	184
7 x 0,75	114	0,16	12,5	241
25 x 0,75	333	0,16	21,9	688

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Number of cores and nominal cross section mm ²	Copper figure	Wire diameter	Overall diameter appr. mm	Weight appr. kg / km
	kg/km	mm		
2 x 1	63	0,16	9,1	126
3 x 1	74	0,16	9,7	149
5 x 1	108	0,16	11,5	209
7 x 1	141	0,16	12,4	250
12 x 1	228	0,16	17,5	305
18 x 1	316	0,16	19,5	593
25 x 1	398	0,16	23,4	815
2 x 1,5	82	0,16	10,7	170
3 x 1,5	98	0,16	11,2	196
4 x 1,5	124	0,16	12,0	223
5 x 1,5	136	0,16	13,0	268
7 x 1,5	178	0,16	15,7	390
12 x 1,5	313	0,16	19,5	580
18 x 1,5	411	0,16	22,8	780
25 x 1,5	556	0,16	27,3	1.109
3 x 2,5	137	0,16	12,7	264
4 x 2,5	172	0,16	14,0	337
7 x 2,5	310	0,16	19,3	592