

FLEXIBLE CONTROL CABLES

CC 640 CP Halogen-free oil resistant shielded control cable with colored conductors



Marking for CC 640 CP 52841604: SAB BRÖCKSKES · D-VIERSEN ·
52840415 4 G 1.50 mm² CC 640 CP 16 AWG/4c 52841604 AWM Style 21127 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

CC 640 CP is a shielded flexible multi-conductor, 600 V, 80°C UL recognized and CSA approved SABIX® insulated flexible power supply and control cable with a rugged, abrasion resistant polyurethane jacket. The polyurethane jacket allows this cable to be used both indoor and outdoor, in wet, dry, and extremely cold conditions. The cable is flame retardant and is colored safety yellow. It has been safety tested with UL. Recommended applications include power supply for portable hand tools and appliances. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

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Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	US 1, see page O/26
Stranding:	in layers with a non-woven tape over the outer layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Jacket color:	yellow

Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance
- good EMC characteristics

Technical data:

Nominal voltage:	DIN VDE Uo/U 300/500 V	UL/CSA 600 V	
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V		
Min. bending radius			
<i>fixed installation:</i>	5 x O.D.		
<i>free movement:</i>	10 x O.D.		
Radiation resistance:	5 x 10 ⁷ cJ/kg		
Temperature range	DIN VDE	UL	CSA
<i>static:</i>	-40/+90°C	up to +75°C	up to +80°C
<i>flexing:</i>	-30/+90°C	up to +75°C	up to +80°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1		
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2		
Oil resistance:	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
Flexibility:	very good		
Weather resistance:	very good		
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/29		

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
52841802	2	0.315	8.0	56
52841803	3	0.327	8.3	64
52841804	4	0.346	8.8	74
52841805	5	0.374	9.5	86
52841807	7	0.398	10.1	105
52841812	12	0.504	12.8	167
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
52841602	2	0.339	8.6	67
52841603	3	0.354	9.0	78
52841604	4	0.378	9.6	91
52841605	5	0.406	10.3	106
52841607	7	0.437	11.1	132
52841612	12	0.551	14.0	212

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
52841402	2	0.390	9.9	93
52841403	3	0.409	10.4	110
52841404	4	0.437	11.1	130
52841405	5	0.480	12.2	164
52841407	7	0.520	13.2	203
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
52841203	3	0.465	11.8	157
52841204	4	0.504	12.8	190
52841205	5	0.547	13.9	226
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
52841003	3	0.531	13.5	215
52841004	4	0.575	14.6	261
52841005	5	0.646	16.4	331

Other dimensions and colors are possible on request.