

Construction with reference to EN 50306

HALOGEN-FREE CABLES

Classification of smoke density acc. to NF F 16-101



SABIX® A 872 C TWÖ "Thin-wall" data cable with overall tinned copper screen



Marking for SABIX® A 872 C TWÖ 68720610:
SAB BRÖCKSKES · D-VIERSEN · SABIX® A 872 C TWÖ 6 x 1.0 mm² CE

SABIX® A 872 C TWÖ is a very flexible halogen-free tinned copper shielded data cable. The cable is designed for use in transportation vehicles and locomotives. The "thin-wall" outer jacket guarantees easier installation. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. In case of fire, no corrosive gases are produced. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

Construction:

Conductor:	tinned copper strands fine wires acc. to EN 50306-2
Insulation :	special SABIX®
Color code:	white conductors with black numbers acc. to EN 50334
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	special SABIX®
Jacket color:	black

Outstanding features:

- ▶ very flexible
- ▶ good EMC characteristics*
- ▶ halogen-free
- ▶ oil resistant
- ▶ flame retardant and self-extinguishing
- ▶ classification of smoke density acc. to NF F 16-101
- ▶ thin-walled
- ▶ easier installation

* copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage:	2000 V
Min. bending radius	
<i>fixed laying:</i>	5 x O. D.
<i>flexible application:</i>	10 x O. D.
Temperature range	
<i>fixed laying:</i>	-40/+105°C
<i>flexible application:</i>	-25/+105°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	No flame propagation acc. to IEC 60332 + EN 60332 resp. EN 50305. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034 + index of smoke density acc. to NF F 16-101
Ozone resistance:	acc. to VDE 0282 part 2
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ ≈ 20 AWG • 0.50 mm ²				
68720205	2	0.189 ± 0.020	4.8 ± 0.5	23
68720405	4	0.213 ± 0.020	5.4 ± 0.5	32
68720805	8	0.291 ± 0.020	7.4 ± 0.5	56
68721005	10	0.315 ± 0.020	8.0 ± 0.5	68
68721205	12	0.323 ± 0.020	8.2 ± 0.5	76
68721605	16	0.354 ± 0.020	9.0 ± 0.5	94

item no.	no. of conductors	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ ≈ 19 AWG • 0.75 mm ²				
68720207	2	0.205 ± 0.020	5.2 ± 0.5	28
68720407	4	0.228 ± 0.020	5.8 ± 0.5	41
68720607	6	0.268 ± 0.020	6.8 ± 0.5	56
68720807	8	0.319 ± 0.020	8.1 ± 0.5	75
68721007	10	0.346 ± 0.020	8.8 ± 0.5	88
68721207	12	0.354 ± 0.020	9.0 ± 0.5	99
68721407	14	0.370 ± 0.020	9.4 ± 0.5	112
68721607	16	0.390 ± 0.020	9.9 ± 0.5	126
68721807	18	0.409 ± 0.020	10.4 ± 0.5	138

item no.	no. of conductors	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ ≈ 18 AWG • 1.00 mm ²				
68720210	2	0.217 ± 0.020	5.5 ± 0.5	32
68720410	4	0.244 ± 0.020	6.2 ± 0.5	48
68720610	6	0.287 ± 0.020	7.3 ± 0.5	69
68720710	7	0.287 ± 0.020	7.3 ± 0.5	73
68720810	8	0.339 ± 0.020	8.6 ± 0.5	87
68721010	10	0.370 ± 0.020	9.4 ± 0.5	104
▶ ≈ 16 AWG • 1.50 mm ²				
68720215	2	0.240 ± 0.020	6.1 ± 0.5	42
68720415	4	0.276 ± 0.020	7.0 ± 0.5	67
68720715	7	0.339 ± 0.020	8.6 ± 0.5	108
68720815	8	0.386 ± 0.020	9.8 ± 0.5	124

Other dimensions and colors are possible on request.



Especially for use in rail vehicles.