

Construction with reference to EN 50306

# HALOGEN-FREE CABLES

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

## SABIX® A 872 C TW "Thin-wall" data cable with overall copper screen



Marking for SABIX® A 872 C TW 68720610:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 872 C TWÖ 6 x 1,0 mm<sup>2</sup> CE

SABIX® A 872 C TW is a very flexible UL approved halogen free tinned copper shielded data cable. The cable is designed for use in transportation vehicles and locomotives. The "thin-wall" outer jacket guarantees a high installation standard. 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 a extremely high risk of fire.

### Construction:

<b>Conductor:</b>	tinned copper strands fine wires acc. to. EN 50306-2
<b>Insulation :</b>	SABIX® 960
<b>Color code:</b>	white conductors with black numbers acc. to. EN 50334
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	SABIX® 280
<b>Jacket color:</b>	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
- ▶ high installation comfort

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>o</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+105°C
flexible application:	-25/+105°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	No flame propagation acc. to IEC 60332 + EN 50266 resp. EN 50305. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034 + index of smoke density acc. to NF F 16-101
<b>Ozone resistance:</b>	acc. to VDE 0282 part 2
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (15/32) • 0.50 mm <sup>2</sup>				
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

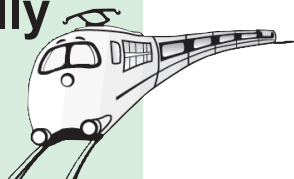
item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 19 AWG (23/32) • 0.75 mm <sup>2</sup>				
68720207	2	0.205 ± 0.020	5.2 ± 0.5	28
68720407	4	0.228 ± 0.020	5.8 ± 0.5	41
68720607	6	0.268 ± 0.020	6.8 ± 0.5	56
68720807	8	0.319 ± 0.020	8.1 ± 0.5	75
68721007	10	0.346 ± 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 (30/32) • 1.00 mm <sup>2</sup>				
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 (27-29/30) • 1.50 mm <sup>2</sup>				
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



K 37

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