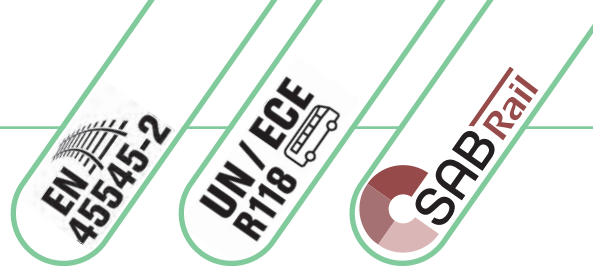



Halogen-free Cables

SABIX® R flex

SABIX® Rail - Continuous flex cable with numbered conductors



BRÖCKSKES · D-VIERSEN · SABIX® R flex 5G0.75 mm² CE 

Marking for SABIX® R flex 66701105:

SAB BRÖCKSKES · D-VIERSEN · SABIX® R flex 5G0.75 mm² CE

Application: Suitable for flexible and protected installation in the interior for door control or in protecting tubes for outdoor laying at the bogie, railway machines or as connection cable between the waggons. Appropriate for light and medium mechanical stress.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	special polymer
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors Twisted pairs type without green/yellow ground
Stranding:	in layers resp. pairwise
Wrapping:	foil
Shielding:	tinned copper braiding (if existing)
Jacket material:	SABIX® Ultra
Jacket color:	black (RAL 9005)

Outstanding features:

- halogen-free
- continuous flex
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing
- good ozone, UV and weather resistance
- good oil and fuel resistance
- good acid and alkalines resistance
- fulfills fire protection requirements R15 (EL1A) and R16 (EL1B) acc. to EN 45545-2 for hazard levels HL1-2
- flame retardant acc. to UN/ECE R118

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

Technical data:

Nominal voltage:	Uo/U 300/500 V	
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 2000 V	
Min. bending radius:	unshielded:	shielded:
<i>fixed installation:</i>	4 x O.D.	5 x O.D.
<i>flexible application:</i>	6 x O.D.	10 x O.D.
<i>continuously flex:</i>	12 x O.D.	15 x O.D.
Temperature range:	DIN VDE	
<i>static:</i>	-50/+90°C	
<i>flexible:</i>	-40/+90°C	
Halogen-free:	acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0.5% acc. to IEC 60754-1. pH-value is > 4.3 acc. to IEC 60754-2. Conductivity is < 10.0 µS/mm acc. to IEC 60754-2. Fluoric content < 0.1% acc. to IEC 60684-2	
Burning characteristics:	No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2. Flame retardant acc. to UL 1685 section 12, FT4/IEEE 1202. Burning tests acc. to ASTM E 162-09. Flame retardant acc. to ISO 6722 (UN/ECE R118)	
Toxicity:	acc. to EN 50305+ VDE 0260-305	
Smoke density:	acc. to IEC 61034 + VDE 0482-1034	
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1	
Flexibility:	very good	
Approvals:	CE, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
multi-conductor cable unshielded				
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm²				
66700002	2	0.181	4.6	21
66700004	4	0.213	5.4	32
66700007	7	0.272	6.9	51
66700012	12	0.331	8.4	76
66700018	18	0.390	9.9	108
66700032	32	0.504	12.8	179
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm²				
66700103	3	0.220	5.6	34
66700105	5	0.264	6.7	50
66700125	25	0.543	13.8	204
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm²				
66700202	2	0.224	5.7	33
66700273	73	0.906	23.0	665
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm²				
66700303	3	0.260	6.6	54
66700307	7	0.370	9.4	112
66700318	18	0.539	13.7	253

item no.	no. of pairs	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
multi-pair cable shielded				
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm²				
66703002	2	0.276	7.0	46
66703003	3	0.315	8.0	60
66703004	4	0.394	10.0	81
66703006	6	0.409	10.4	108
66703008	8	0.492	12.5	154
66703012	12	0.563	14.3	187
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm²				
66703103	3	0.350	8.9	76
66703108	8	0.575	14.6	206
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm²				
66703202	2	0.350	8.9	75
66703203	3	0.374	9.5	91
66703206	6	0.496	12.6	167
66703208	8	0.594	15.1	240
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm²				
66703302	2	0.406	10.3	105
66703304	4	0.500	12.7	163
66703306	6	0.563	14.3	232

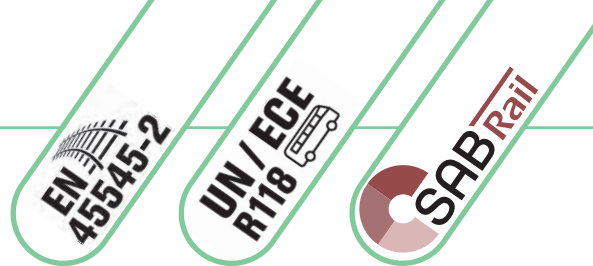
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Halogen-free Cables

SABIX® R flex

SABIX® Rail - Continuous flex cable with numbered conductors



BRÖCKSKES · D-VIERSEN · SABIX® R flex 5G0.75 mm² CE



Marking for SABIX® R flex 66701105:

SAB BRÖCKSKES · D-VIERSEN · SABIX® R flex 5G0.75 mm² CE

item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft	item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft	item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
multi-conductor cable shielded														
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm²														
66701002	2	0.209	5.3	31										
66701003	3	0.217	5.5	34										
66701005	5	0.256	6.5	48										
66701007	7	0.291	7.4	61										
66701018	18	0.425	10.8	134										
66701032	32	0.539	13.7	213										
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm²														
66701103	3	0.240	6.1	42										
66701104	4	0.264	6.7	51										
66701105	5	0.283	7.2	60										
66701125	25	0.571	14.5	236										
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm²														
66701204	4	0.272	6.9	58										
66701207	7	0.343	8.7	92										
66701212	12	0.433	11.0	151										
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm²														
66701303	3	0.280	7.1	62										
66701304	4	0.299	7.6	75										
66701305	5	0.335	8.5	92										
66701318	18	0.567	14.4	280										
▶ 14 AWG (≈ 140/34) ▪ 2.50 mm²														
66701404	4	0.382	9.7	117										
66701405	5	0.433	11.0	158										
66701407	7	0.520	13.2	218										
66701412	12	0.618	15.7	312										
▶ 12 AWG (≈ 224/34) ▪ 4.00 mm²														
66701504	4	0.449	11.4	175										
▶ 10 AWG (≈ 183/32) ▪ 6.00 mm²														
66701604	4	0.547	13.9	255										
▶ 8 AWG (≈ 320/32) ▪ 10.00 mm²														
66701704	4	0.661	16.8	406										
▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²														
66701804	4	0.795	20.2	595										
▶ 4 AWG (≈ 760/32) ▪ 25.00 mm²														
66701904	4	0.949	24.1	869										
Other dimensions and colors are available on request														