

INDUSTRIAL ETHERNET CABLES CAT 5e AND INDUSTRIAL GIGABIT ETHERNET CABLES CAT 6

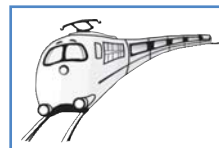


SABIX® R 660 FRNC CAT 5e SABIX® Rail CAT 5e
SABIX® R 691 FRNC CAT 6 SABIX® Rail CAT 6



**externally tested
 acc. to DIN 5510-2*
 edition May 2009**

SABIX® R 660 FRNC CAT 5e 2x2x22AWG CE



**Especially
 for use in
 rail vehicles**

Marking for SABIX® R 660 FRNC CAT 5e 66602202:

SAB BRÖCKSKES · D-VIERSEN · SABIX® R 660 FRNC CAT 5e 2x2x22AWG CE

The SABIX® R 660 CAT 5e and SABIX® R 691 CAT 6 fulfil the fire protection standard DIN 5510. After the tests of flame propagation, smoke density and toxicity SAB is able to offer Ethernet cables for railway technology which are externally certified. Field of application for the new types is the networking of systems in railway technologies, e.g. the establishment of passenger information systems, monitoring technologies or E-Ticketing systems. Furthermore, the cables of the product range S Rail fulfil the highest security standards with regard to flame protection.

item no.	type	dimensions	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. Ω /km
▶ 66602402	SABIX® R 660 FRNC CAT 5e	24/19 / 2pr	0.240	approx. 6.1	42	83.3
▶ 66602202	SABIX® R 660 FRNC CAT 5e	22 (\approx 7/30) / 2pr	0.264	approx. 6.7	47	58.0
▶ 66912604	SABIX® R 691 FRNC CAT 6	26/7 / 4pr	0.354	max. 9.0	57	145.0

Other dimensions and colors are possible on request.

Construction:	SABIX® R 660 FRNC CAT 5e <i>flexible</i>		SABIX® R 691 FRNC CAT 6 <i>flexible</i>
Dimension:	2 x 2 x 24 AWG	2 x 2 x 22 AWG	4 x 2 x 26 AWG
Conductor:	tinned copper strands, fine wires		
Insulation:	PE		
Color code:	blue, yellow, white, orange		white conductors with numbers 1 - 4 (+ blue, orange, green, brown)
Stranding:	in layers		twisted pairs wrapped with PETP foil and alu foil
Wrapping:	PETP foil		non-woven tape
Inner jacket:	special SABIX®		—
Screen:	alu foil and tinned copper braiding		
Outer jacket:	special SABIX®		
Jacket color:	green (similar RAL 6018)		

Technical data:	SABIX® R 660 FRNC CAT 5e <i>flexible</i>		SABIX® R 691 FRNC CAT 6 <i>flexible</i>
Item number:	6660-2402	6660-2202	6691-2604
Peak operating voltage VDE:	max. 350 V		
Testing voltage:	conductor/conductor 1500 V, conductor/screen 1200 V		
Temperature range VDE fixed laying: flexible application:	- 40°C / + 70°C - 30°C / + 70°C		
Min. bending radius fixed laying: flexible application:	5 x O.D. 12 x O.D.		
Characteristic impedance:	100 Ω \pm 10 Ω , accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)		100 Ω \pm 10 Ω , accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2 (CAT 6 acc. to EN 50173-1)
Zero halogen:	acc. to DIN VDE 0472 part 815 + IEC 60754-1		
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1 and EN 60332-1-2, no flame propagation acc. to IEC 60332-3-25, EN 60332-3-25 and EN 50266-2-5 for cable diameter > 6 mm < 12 mm		
Smoke density:	acc. to IEC 61034-1 and EN 61034-1, translucence > 60%		
Toxicity:	FED ₉₀ < 1 acc. to DIN EN 5510-2 appendix C 3.3		
Flexibility:	good		
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/28		

* Externally tested at the reference types SABIX® R 660 FRNC CAT 5e 2 x 2 x 22 AWG and SABIX® R 691 FRNC CAT 6.