

# Halogen-free Cables

## SABIX® BL 446 C FRNC TP

SABIX® BL - Flexible paired data cable with aluminum pair shield and overall copper shield



Marking for SABIX® BL 446 C FRNC FTP 64462475:

SAB BRÖCKSKES · D-VIERSEN · SABIX® BL 446 C FRNC FTP 24 x (2 x 0.75 mm²)ST - IEC 60332-3-22 - 300V DNV-GL CE nd current meter marking

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Color code:</b>	≤ 0.25 mm² = DIN 47100, see page O/26 ≥ 0.34 mm² = white, blue with printed pair number
<b>Stranding:</b>	white conductors, blue twisted to pairs
<b>Pair screen:</b>	alu foil
<b>Stranding:</b>	pairs together in layers
<b>Wrapping:</b>	PETP foil
<b>Shielding:</b>	tinned copper braiding
<b>Wrapping:</b>	PETP foil
<b>Jacket material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Jacket color:</b>	pigeon blue (RAL 5014)

### Outstanding features:

- low smoke halogen-free (LSHF)
- asbestos-free
- good EMC characteristics\*
- good transmission rates and crosstalk attenuation
- no flame propagation
- flame retardant and self-extinguishing
- flexible
- for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- approvals:  
DNV-GL  
Russian Maritime Register of Shipping

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

### Technical data:

<b>Peak operating voltage:</b>	max. 300 V
<b>Testing voltage:</b>	conductor/conductor: 1500 V conductor/shielding: 1200 V
<b>Min. bending radius:</b>	<i>fixed installation:</i> 5 x O.D. <i>free movement:</i> 10 x O.D.
<b>Temperature range:</b>	<i>static:</i> -40/+90°C <i>flexible:</i> -30/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Corrosivity:</b>	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + VDE 0482-1034
<b>Flexibility:</b>	very good
<b>Approvals:</b>	DNV-GL, CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30



### Possible on request:

- bare copper strands
- alternative color code and jacket color

item no.	no. of pairs	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈lbs/mft
<b>▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²</b>				
64460225	2	0.244	6.2	36
64460825	8	0.398	10.1	101
64461225	12	0.500	12.7	159
<b>▶ 22 AWG (≈ 7/30) ▪ 1.00 mm²</b>				
64460234	2	0.303	7.7	49
64460434	4	0.362	9.2	82
64460834	8	0.449	11.4	132
64461234	12	0.587	14.9	204

item no.	no. of pairs	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈lbs/mft
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²</b>				
64460475	4	0.445	11.3	122
64462475	24	0.933	23.7	574
<b>▶ 16 AWG (≈ 28/30) ▪ 1.50 mm²</b>				
64461980	19	0.988	25.1	693

Other dimensions and colors are available on request