

# ETFE, FEP, PFA CABLES

## BlueLine TA 180 C Flexible FEP connection cables with overall tinned copper screen



Marking for BlueLine TA 180 C 37530715: SAB BRÖCKSKES · D-VIERSEN

· BL TA 180 C 7 G 1.5 mm<sup>2</sup> - IEC 60332-3-22 300/500V DNV-GL AWM Style 21618 150°C 600V cUL AWM I/II A/B 150°C 600V FT1 FT2 CE

The BlueLine TA 180 C has been developed particularly for applications in areas with extreme environmental influences. This cable is suitable for adverse conditions in engine rooms, even under extreme ambient temperatures. It is both oil and fuel resistant and has very good chemical resistances. Besides an excellent fire performance as well as rugged construction, the BlueLine TA 180 C type performs with very high flexibility and extremely good handling during installation. The screened control cable with fluorine plastic insulation is designed for use at control panels for ship diesel engines.

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	FEP
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334, without green-yellow earth wire
<b>Stranding:</b>	in layers
<b>Inner jacket:</b>	Besilen®
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	FEP
<b>Jacket color:</b>	black

### Outstanding features:

- no flame propagation
- flame retardant and self-extinguishing
- good EMC characteristics\*
- oil and fuel resistant
- good chemical resistance
- high cold and heat resistance
- approvals:  
DNV-GL  
American Bureau of Shipping  
Russian Maritime Register of Shipping  
UL/cUL recognized

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

### Technical data:

<b>Nominal voltage U<sub>0</sub>/U:</b>	<b>DIN VDE:</b> 300/500 V	<b>UL/cUL:</b> 600 V
<b>Testing voltage:</b>	2000 V (AC)	
<b>Min. bending radius</b>		
fixed laying:	5 x O. D.	
flexible application:	10 x O. D.	
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/cUL:</b> up to +150°C
fixed laying:	-55/+180°C	
flexible application:	-55/+180°C	
<b>Burning characteristics:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2	
<b>Chemical resistance:</b>	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds	
<b>Oil and fuel resistance:</b>	very good	
<b>Flexibility:</b>	good	
<b>Zero halogen:</b>	not fulfilled	
<b>Absence of harmful substances:</b>	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
▶ 19 AWG (≈ 23/32) • 0.75 mm <sup>2</sup>				
37531902	2	0.224	5.7	42
37531903	3	0.236	6.0	46
37531904	4	0.244	6.2	54
37531905	5	0.280	7.1	67
37531906	6	0.303	7.7	78
37531907	7	0.303	7.7	81
37531908	8	0.350	8.9	102
37531912	12	0.402	10.2	136
37531916	16	0.449	11.4	175
37531920	20	0.504	12.8	224
▶ 18 AWG (≈ 30/32) • 1.00 mm <sup>2</sup>				
37531802	2	0.232	5.9	43

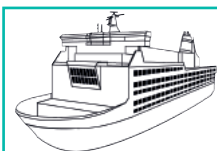
item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm <sup>2</sup>				
37531602	2	0.260	6.6	54
37531603	3	0.272	6.9	65
37531605	5	0.323	8.2	97
37531606	6	0.354	9.0	115
37531607	7	0.354	9.0	122
37531612	12	0.472	12.0	208
▶ 15 AWG (≈ 38/30) • 2.00 mm <sup>2</sup>				
37531502	2	0.295	7.5	72
37531503	3	0.319	8.1	87

Other dimensions and colors are possible on request.

### Possible on request:

- Bare copper strands.
- Alternative color code and jacket color.

Application e.g. as connection cable for the control of marine diesel engines



Especially for use in shipbuilding industry.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)