

# ETFE, FEP, PFA Cables

## BL TA 180 C

Flexible FEP connection cables with overall tinned copper shield

+180°C

SAB BL-Line



150°C 600V AWM I/II A/B 150°C 600V FT1 FT2



Marking for BL TA 180 C 37530715:

SAB BRÖCKSKES · D-VIERSEN · BL TA 180 C 7x1.5mm<sup>2</sup> - IEC 60332-3-22 -

300/500V AWM Style 21618 150°C 600V AWM I/II A/B 150°C 600V FT1 FT2

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

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Insulation:</b>	FEP
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green/yellow ground
<b>Stranding:</b>	in layers
<b>Inner jacket:</b>	Besilen®
<b>Shield:</b>	tinned copper braiding
<b>Jacket material:</b>	FEP
<b>Jacket color:</b>	black (RAL 9005)

### 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
- asbestos-free
- approvals:  
UL/cUL recognized  
DNV-GL  
ABS  
Russian Maritime Register of Shipping

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

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V	
<b>Voltage UL/cUL:</b>	600 V	
<b>Testing voltage:</b>	conductor/conductor: 2000 V (AC) conductor/shielding: 2000 V	
<b>Min. bending radius:</b>	fixed installation: 5 x O.D. free movement: 10 x O.D.	
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range:</b>	DIN VDE static: -55/+180°C flexible: -55/+180°C	UL/cUL: up to +150°C
<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, UL FT1, FT2	
<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>Halogen-free:</b>	not fulfilled	
<b>Approvals:</b>	UR, cUR, DNV-GL, ABS, RMMS, CE, EAC, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
<b>▶ 19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b>				
37530207	2	0.224	5.7	42
37530307	3	0.236	6.0	46
37530407	4	0.244	6.2	54
37530507	5	0.280	7.1	67
37530607	6	0.303	7.7	78
37530707	7	0.303	7.7	81
37530807	8	0.350	8.9	102
37531207	12	0.402	10.2	136
37531607	16	0.449	11.4	175
37532007	20	0.504	12.8	224
<b>▶ 18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>				
37530210	2	0.232	5.9	43

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>				
37530215	2	0.260	6.6	54
37530315	3	0.272	6.9	65
37530515	5	0.323	8.2	97
37530615	6	0.354	9.0	115
37530715	7	0.354	9.0	122
37531215	12	0.472	12.0	208
<b>▶ 15 AWG (≈ 38/30) • 2.00 mm<sup>2</sup></b>				
37530220	2	0.295	7.5	72
37530320	3	0.319	8.1	87

Other dimensions and colors are available on request



### Possible on request:

- without overall copper shield
- alternative color code and jacket color



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