

## Applications

### ■ Applications FEP BlueLine cables for Shipbuilding

The development of the new BlueLine cable series has been advanced in co-operation with customers coming from the shipbuilding field. The new cables are available in high temperature and oil resistant types. All SAB BlueLine types are constructed with tinned copper strands in class 5 in order to offer advantages in corrosion resistance and flexibility. Due to the approval by DNV·GL, American Bureau of Shipping and Russian Maritime Register of Shipping, it also offers a "certain planning reliability for classification". These cables are suitable for adverse conditions in engine rooms. They are both oil and fuel resistant, have very good chemical resistances and excellent fire performance.

#### Exemplary applications:

**BlueLine TA 180 C** Ship engine rooms, control panels for ship diesel engines

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### ■ Applications FEP cables

These cables are used, for example, in new technologies where high demands for resistance against chemicals and solvents must be fulfilled. Compared to ETFE, FEP has slightly better resistance. Further advantages are the excellent temperature resistance and flexibility at cold temperatures as well as the good electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics.

#### Exemplary applications:

**TD 809 F**  
**TD 842 (ST) F**  
**TD 845 DS**  
**TD 846 DS TP**

Applications in high-frequency and broad-band technologies, coaxial and microwave technologies, high information velocity with exact information transmission at the same time, chemical industry, furnace construction, brick works, heating appliances

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**TA 835 Y (TR)**

Our lamp cable is used in the lamp and light industry for the connection of halogen lamps and lighting or rather downlights. This cable is because of design reasons equipped with a transparent PVC outer sheath. The cores have a FEP insulation which is very temperature resistant and which is made to withstand the extremely high temperature of the halogen lights of up to +180°C

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# ETFE, FEP, PFA CABLES

## Selection index

		cable type	BlueLine TA 180 C	TD 809 F	TD 842 (ST) F	TD 845 DS	TD 846 DS TP	TA 835 Y (TR)
Basic construction	Connection cable		x	x	x	x		x
	Data cable					x		
	Tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5		x					
	Tinned copper strands, fine wires							x
	Copper strands acc. to ASTM B 286			x	x	x	x	
	Black conductors with consecutive numbers acc. to EN 50334		x					
	Color code acc. to US 4			x	x	x		
	Color code acc. to US 5						x	
	Screened		x			x	x	
	Twisted pairs						x	
Transparent outer jacket							x	
Temperature range static*	+ 180°C							
	+ 70°C							
	- 40°C							
	- 55°C							
	- 90°C							
Voltage	Voltage UL 300 V			x	x	x	x	
	Nominal voltage 300/500 V		x					
	Peak operating voltage max. 900 V			x	x	x	x	
	Testing voltage 2000 V		x	x	x	x	x	
	Testing voltage 2500 V							x
Standards	UL recognized			x	x	x	x	
	cUL recognized		x					
	DNV·GL		x					
	American Bureau of Shipping		x					
	Russian Maritime Register of Shipping		x					
	Burning characteristics flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 and UL VW1			x	x	x	x	
Burning characteristics 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		x						
Characteristics	Oil resistance acc. to UL standard 758			x	x	x	x	
	Oil and fuel resistance		x					
	Very good chemical resistance			x	x	x	x	

Temperature range:



\*The temperature range for flexing is mentioned on the particular catalog page