# Applications

## Applications FEP cables

These cables are used for example in new technologies if high demands for resistance against chemicals and solvents must be fulfilled. Compared to ETFE, FEP has a 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**<br>**TD 842 (ST) F**<br>**TD 845 DS**<br>**TD 846 DS TP** | Applications in high-frequency and broad-band techniques, coaxial and microwave techniques, high information velocity with exact information transmission at the same time, chemical industry, furnace construction, brick works, heating appliances |

## 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 as high temperature and oil resistant type. 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 Germanischer Lloyd it also offers a certain planning reliability for classification. These cables are suitable for adverse conditions in engine rooms. It is both oil and fuel resistant, has very good chemical resistances and an excellent fire performance.

**Exemplary applications:**

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

# Selection index

| | cable type | TD 809 F | TD 842 (ST) F | TD 845 DS | TD 846 DS TP | BlueLine TA 180 C |
|---|---|---|---|---|---|---|
| Basic construction | Connection cable | x | x | x | | x |
| | Data cable | | | | x | |
| | tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 | | | | | 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 | |
| Temperature range static* | + 180 °C | | | | | |
| | – 55 °C | | | | | |
| | – 90 °C | | | | | |
| Voltage | Voltage UL 300 V | x | x | x | x | |
| | Nominal voltag 300/500 V | | | | | x |
| | Peak operating voltage max. 900 V | x | x | x | x | |
| | Testing voltage 2000 V | x | x | x | x | x |
| Standards | UL recognized | x | x | x | x | |
| | GL approved | | | | | 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 |
| Charac-teristics | 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:
from
to

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

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