

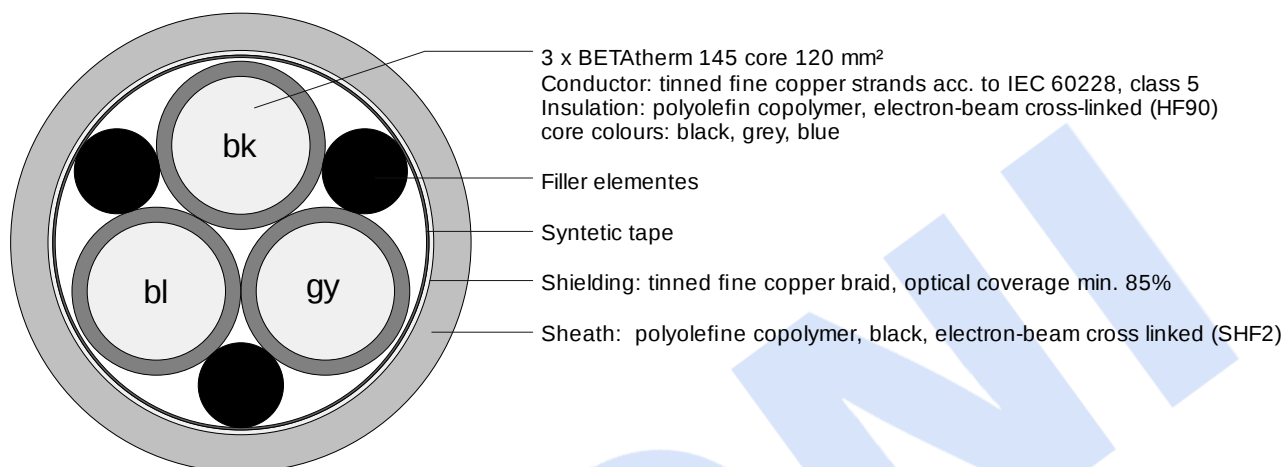
BETAflam 145 C-flex, black

HFFR Electron Beam Cross-linked Marine Cables

3x120 mm² bk, gy, bl

Construction

TRZ-19099-e



Dimensions (approx.)

Ø BETAtherm 145 core	17.80 mm
Ø over core stranding	38.40 mm
Ø over shielding (copper braid)	39.30 mm
Ø cable	44.10 ± 1.5 mm

Technical data

Nominal voltage	U ₀ /U	600/1000 V
Testing voltage	core / core	3500 V
	core / shielding	2500 V
Max. conductor temperature	fixed installation	+ 145 °C
	occasionally moved	+ 120 °C
	frequently moved	+ 90 °C
Min. ambient temperature	fixed installation	- 55 °C
	occasionally moved	- 35 °C
Min. bending radius	fixed installation	> 4 x cable-Ø
	occasionally moved (2/day)	> 8 x cable-Ø
Radially watertight		1 hour, 10 m
Life span		30 years
Pulling force		19800 N
Cable weight		~ 4332 kg/km

Fire performance and material properties

Halogen free	IEC 60754-1, EN 50267-2-1
No corrosive gases	IEC 60754-2, EN 50267-2-2
No toxic gases	NF X 70-100
Low smoke density	IEC 61034, DIN EN 61034-2, EN 50268-2
Flame retardant	EN/IEC 60332-1-2
Non-flame propagating	IEC 60332-3, DIN EN 60332-3, EN 50266-2, NF C 32-070
Low fire load	DIN 51900
UV resistant	EN ISO 4892-1/-2
Oil resistance	EN 50264-1, 72 h/100 °C, IRM902
Seawater resistant	yes

Specifications subject to change without notice

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Fire performance and material properties (continued)

Cross-linked insulation compound HF90	IEC 60092-360
Cross-linked sheathing compound SHF2	IEC 60092-360

Approvals

Lloyd's Register (LR)
DET Norske Veritas (DNV)

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