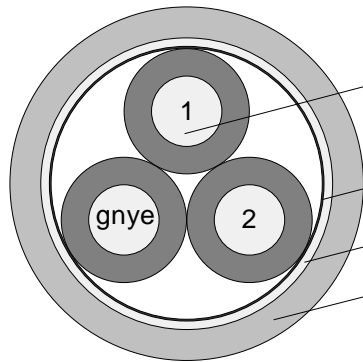


## BETAflam 145 C-flex, black

### 3G2.5 mm<sup>2</sup>, NRPE

Item no.: 218770

#### Construction



3 x BETAtherm 145 core 2.5 mm<sup>2</sup>

Conductor: tinned fine copper strands acc. to IEC 60228, class 5

Insulation: polyolefine copolymer, electron-beam cross-linked

Synthetic tape

Shielding: tinned fine copper braid, optical coverage min. 85%

Sheath: polyolefine copolymer, black, electron-beam cross-linked

#### Dimensions (approx.)

Ø BETAtherm 145 core	3.65 mm
Ø over core stranding	8.00 mm
Ø over shielding (copper braid)	8.40 mm
Electrical cross section braid	1.00 mm <sup>2</sup>
Mechanical cross section braid	1.50 mm <sup>2</sup>
Ø cable	10.20 mm

#### Electrical specifications at 90 °C conductor temp.

Nominal voltage	Nominal current main core <sup>1</sup>	Impedance	DC-Resistance	AC-Resistance	Reactance	Capacitance	Inductance
U <sub>0</sub> /U		Ω/km	Ω/km	Ω/km	Ω/km	nF/km	mH/km
600/1000 V	24 A	10.47	8.21	10.47	0.095	302	0.304

<sup>1</sup> S1 (perforated cable tray), Ambient temp. 45 °C

#### Technical data

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	> 6 x cable-Ø
	occasionally moved	> 12 x cable-Ø
Cable weight		~ 160 kg/km

Specifications subject to change without notice

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**Fire performance and material properties**

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Halogen free	IEC 60754-1, EN 50267-2-1
No corrosive gases	IEC 60754-2, EN 50267-2-2
No toxic gases	NES 02-713, NF X 70-100
Low smoke density	IEC 61034, EN 50268-2
Flame retardant	IEC 60332-1, EN 50265-2-1
Non-flame propagating	IEC 60332-3, EN 50266-2, NF C 32-070
Low fire load	DIN 51900

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