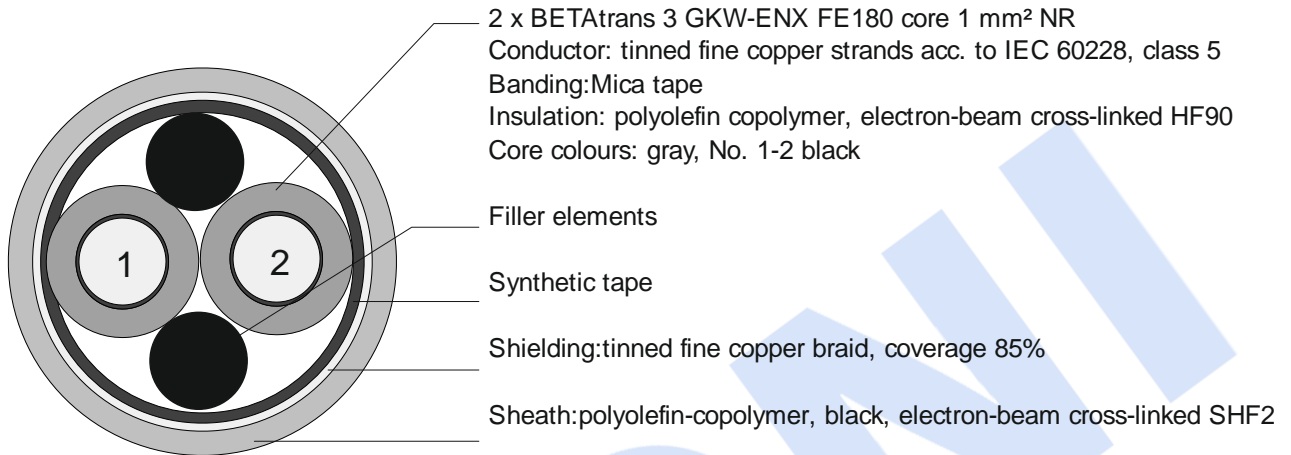


BETrans 3 GKW-ENX FE180 C-flex, black

2x1 mm² NR

Item no.: 313221

Construction



Dimensions (approx.)

Ø Tinned fine copper strand "SRC"	1.20 mm
Ø BETrans 3 GKW-ENX FE180 core	3.05 mm
Ø over core stranding	6.10 mm
Ø over shielding (copper braid)	6.60 mm
Ø cable	8.20 mm

Technical data

Nominal voltage	Uo/U	600/1000 V
Testing voltage	core / core	3500 V
	core / shielding	3500 V
Max. conductor temperature	fixed installation	+120 °C
	short circuit	+280 °C / 5 sec.
Min. ambient temperature	fixed installation	
Min. bending radius	cable-Ø < 10 mm	> 3 x Ø
	cable-Ø > 10 mm	> 4 x Ø
Cable weight		~ 93 kg/km

Specifications subject to change without notice

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Fire performance for rolling stock	EN 50264-1 / EN 45545-2	hazard level HL1 - HL3
Vertical flame propagation: for a single insulated wire or cable	EN 60332-1-2	carbonization > 50 and ≤ 540 mm
Vertical flame spread: of bunched wires or cables ≥ 12 mm	EN 60332-3-24	carbonization < 2.5 m
of bunched wires or cables > 6 < 12 mm	EN 60332-3-25	carbonization < 2.5 m
of bunched wires or cables ≤ 6 mm	EN 50305	carbonization < 1.5 m
Smoke density	EN 61034-2	transmittance > 70 %
Toxicity of smoke	EN 50305	ITC ≤ 3
Absence of halogens	EN 50267-2-1 EN 60684-2	HCl and HBr < 0.5 % HF < 0.1 %
Corrosivity of gases	EN 50267-2-2 EN 50267-2-2	pH > 4.3 conductivity < 10 μS/mm
Circuit integrity (Uo)	IEC 60331-21 EN 50200	180 min. 120 min.

Material properties	EN 50264-3-1	hazard level M
Resistance to ozone	EN 60811-403	72h/40 °C, method B volume concentration 200x10 ⁻⁶
Resistance to cold	EN 60811-504	-40°C
Resistance to oil	EN 60811-404	72h/100 °C, IRM 902
Resistance to fuel	EN 60811-404	168h/70 °C, IRM 903
Resistance to acid	EN 60811-404	168/23 °C, n-Oxalic acid
Resistance to alkaline	EN 60811-404	168/23 °C, n-NaOH
Low fire load	DIN 51900	
Limiting oxygen index (LOI)	ISO 4589-2 ASTM D 2863	> 30 % > 30 %
Cross-linked insulation compound HF90	IEC 60092-360	
Cross-linked sheathing compound SHF2	IEC 60092-360	

Standards

IEC 60092-376

Approvals



Specifications subject to change without notice