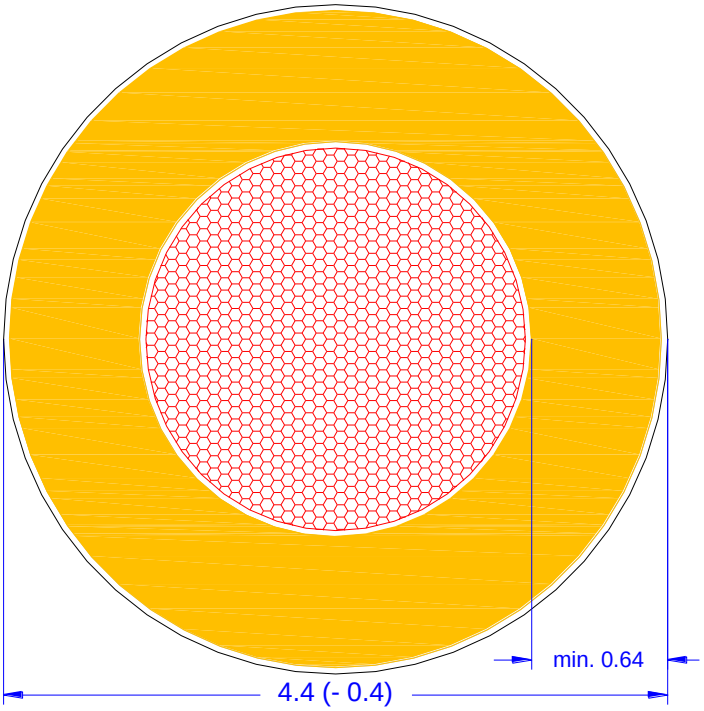
nshielded cable for automotive electric powertrain

FHL2G 4.0 mm² / 0.21 T180 0.6/1.0 kV



Specification	LV 216-1 Tabelle A.1 VW N tbd.

Conductor 4.0 mm²	
Conductor material:	*E-Cu ETP1 according DIN EN 13602*
Conductor design:	*stranded bare copper*
Conductor diameter:	*120 (±5 %) x max. 0.21 mm* *max. 2.8 mm [1)]*

Core insulation	
Core insulation:	*mod. Silicon rubber SiR*
Core diameter:	*4.4 mm (- 0.4)*
Insulation wall thickness:	*min. 0.64 mm*
Colour code:	*orange similar RAL 2003*
Core surface:	*free of talc powder*

Marking
Outer sheath is printed:

ATTENTION HIGH VOLTAGE MAX 600 V AC / 1000 V DC ϟ

[xx…xx]:	*Internal Code*
Distance of marking:	*max. 200 mm*

Electrical properties		
Conductor resistance: (DC, 20°C))	*max. 4.7 mΩ/m*	
Test voltage:	*eff. 8.0 kVolt* *eff. 5.0 kVolt*	*spark test* *5 minutes*
Nominal voltage: (AC / DC)	*max. 600 / 1.000 Volt*	

Mechanical properties

Bend radius:	
- min. 2 x cable-∅:	*static installation*
- min. 4 x cable-∅:	*dynamic installation*
Weight of cable:	*approx. 43.5 g/m*

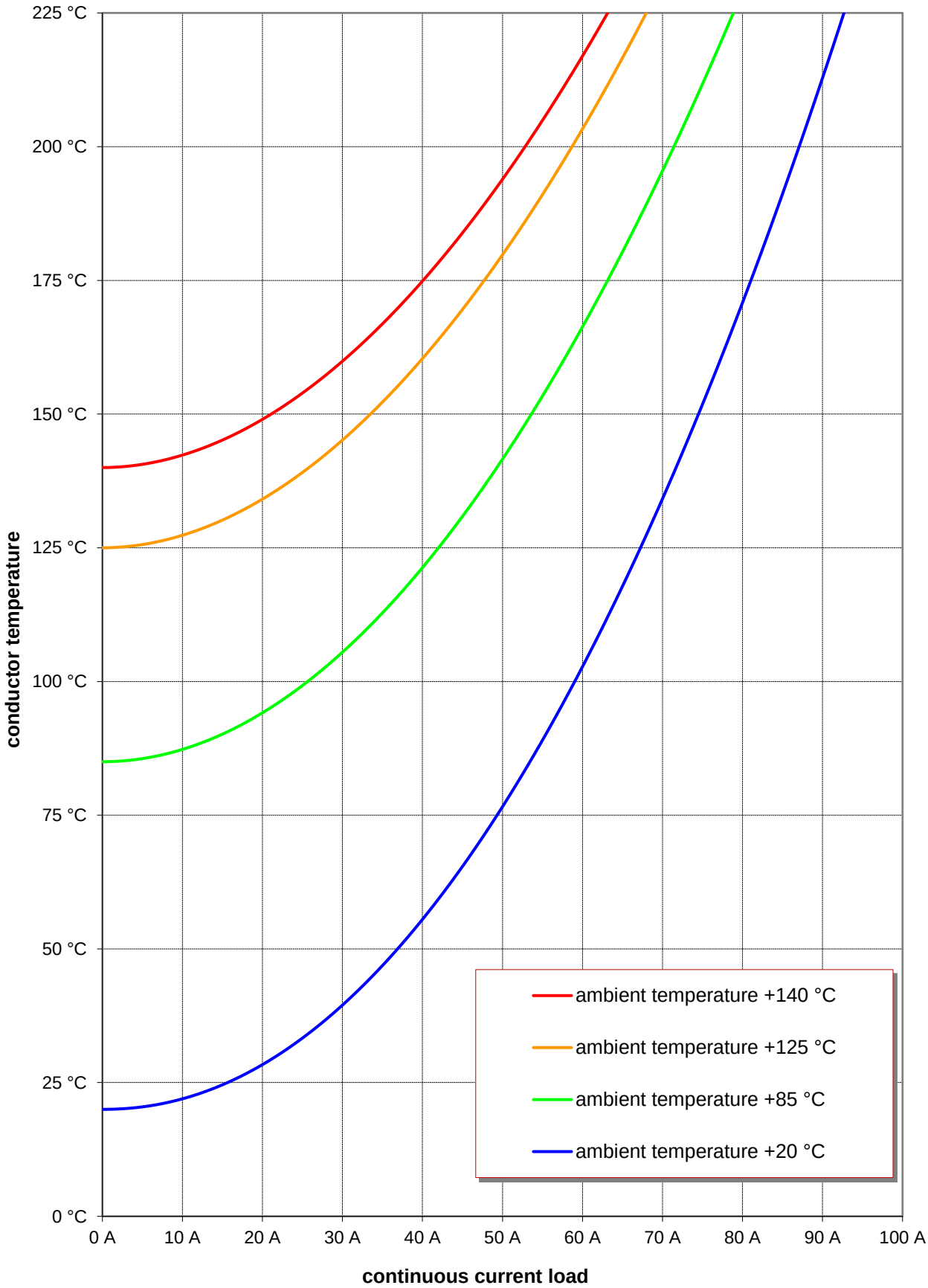
Thermal properties

Operating temperature:	*-40 °C to +180 °C*	*(3000 h)*
Short term ageing:	*to +205 °C*	*(240 h)*

1) max. conductor diameter: average value of the measured largest and smallest conductor diameter under the core insulation

Version	*Creator*	*Date of Issue*	*Description*
A 1	Eck	2017-08-25	Erstausgabe / *first edition*
A 2			
A 3			
A 4			
A 5			

Annex: Continuous current loading on conductor as a function of ambient temperature
calculated simulation according to LV112-3



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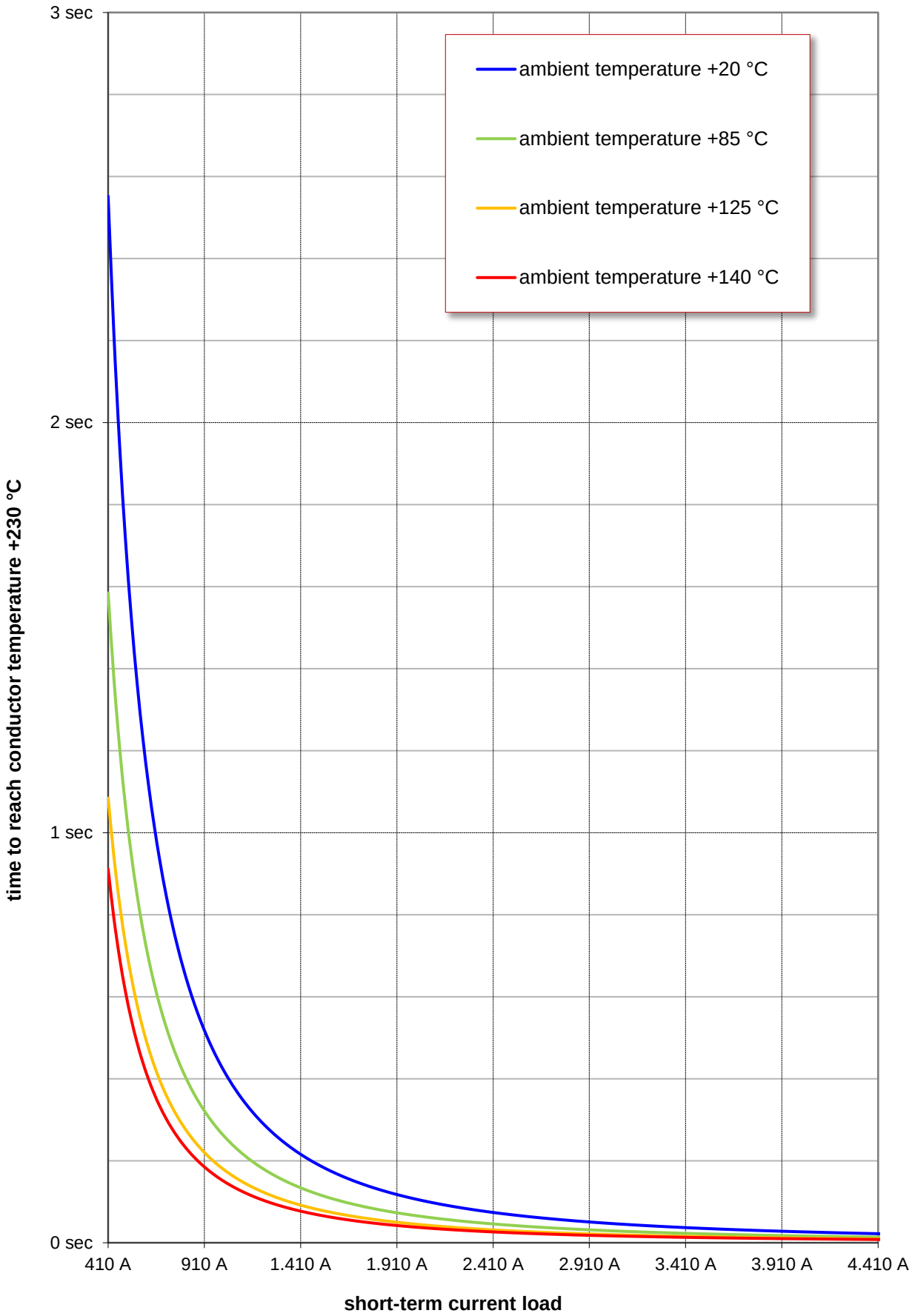
Annex: Short-term current loading on conductor as a function of ambient temperature
calculated simulation according to LV112-3



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