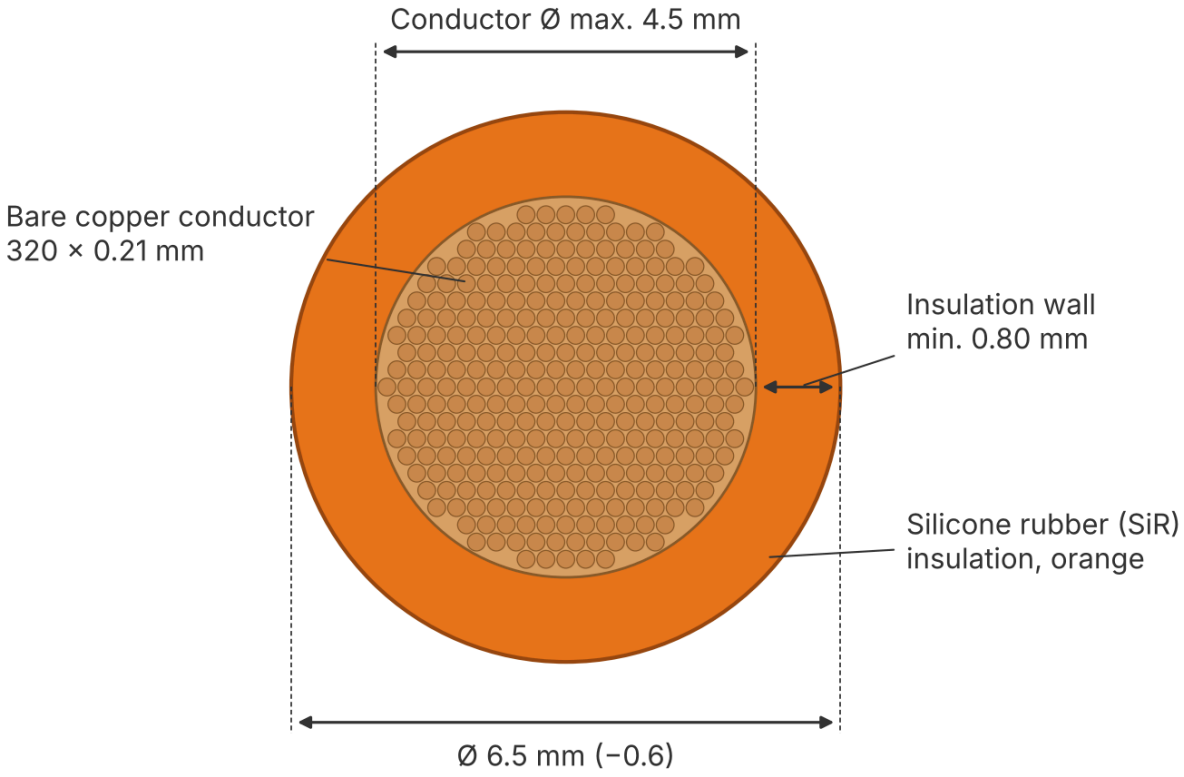
HEI Product Specification

HEI.001.055.003

24/11/2026



FHL2G 1 × 10 mm² cross-section (strand pattern illustrative)

Product overview

HEI.001.055.003 is Coroflex FHL2G (9-2652) 10 mm², a single-core, unscreened, high-voltage silicone cable for electric and hybrid vehicle powertrains, rated -40°C to +180°C.

Item	Detail
HEI part number And link to product	HEI.001.055.003
Manufacturer part number	Coroflex 9-2652
Cable type	FHL2G
Cross-section	1 x 10 mm²
Insulation colour	Orange (similar to RAL 2003)

Typical applications: EV and hybrid HV auxiliary circuits, battery system wiring, and HV routing inside enclosures where screening is not required.

Construction

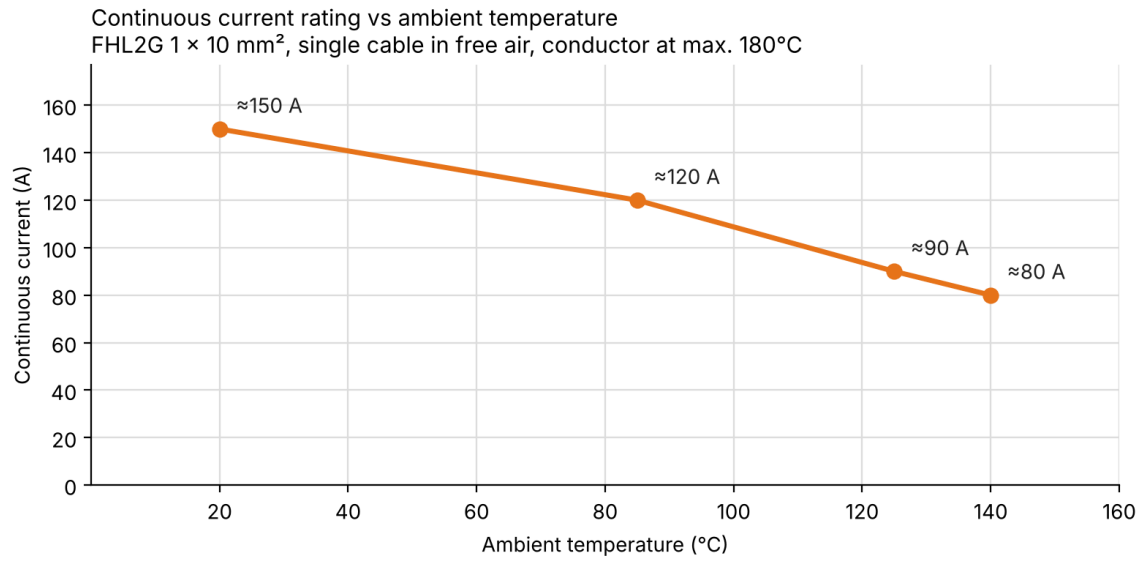
A fine-stranded bare copper conductor with a single thick-wall orange silicone insulation, 6.5 mm overall.

Element	Specification
Conductor material	Bare copper, E-Cu ETP1 to DIN EN 13602
Conductor stranding	320 (±5%) x max. 0.21 mm
Conductor diameter	max. 4.5 mm
Insulation	Modified silicone rubber (SiR), min. wall 0.8 mm, talc-free surface
Overall diameter	6.5 mm (-0.6 mm)
Sheath marking	COROFLEX [nnn] 9-2652 FHL2G 10 mm²/T180 ATTENTION HIGH VOLTAGE MAX 600 V AC / 1000 V DC
Weight	approx. 107 g/m

Electrical, thermal and mechanical properties

Property	Value
Voltage rating	600 V AC / 1000 V DC
Conductor resistance	max. 1.82 mΩ/m at 20°C
Test voltage	8.0 kV (eff.) spark test; 5.0 kV (eff.) for 5 minutes
Operating temperature	-40°C to +180°C (3000 h)
Short-term ageing	up to +205°C (240 h)
Minimum bend radius, static	2 x cable diameter
Minimum bend radius, dynamic	4 x cable diameter

Current carrying capacity



Approximate values read from manufacturer's calculated derating data (LV112-3 simulation).

Values are calculated to LV112-3, not tested, and assume a single cable in free air. Derate further for bundling or enclosed routing. Short-term (overload) ratings are available on request.

Standards

Item	Detail
Design standard	LV 216-1, table A.1

Notes

Data is taken from the manufacturer's published specification (Coroflex TI 9-2652 / 10 mm²) and is subject to change without notice. Values are typical or limit values and do not form a guarantee of suitability; the user is responsible for confirming the cable is suitable for the intended application. For further information contact HE Infusion UK Ltd via heinfusion.com.

Revisions

Issue	Date	Notes	Creator
01	24/11/2026	FIRST ISSUE	MT