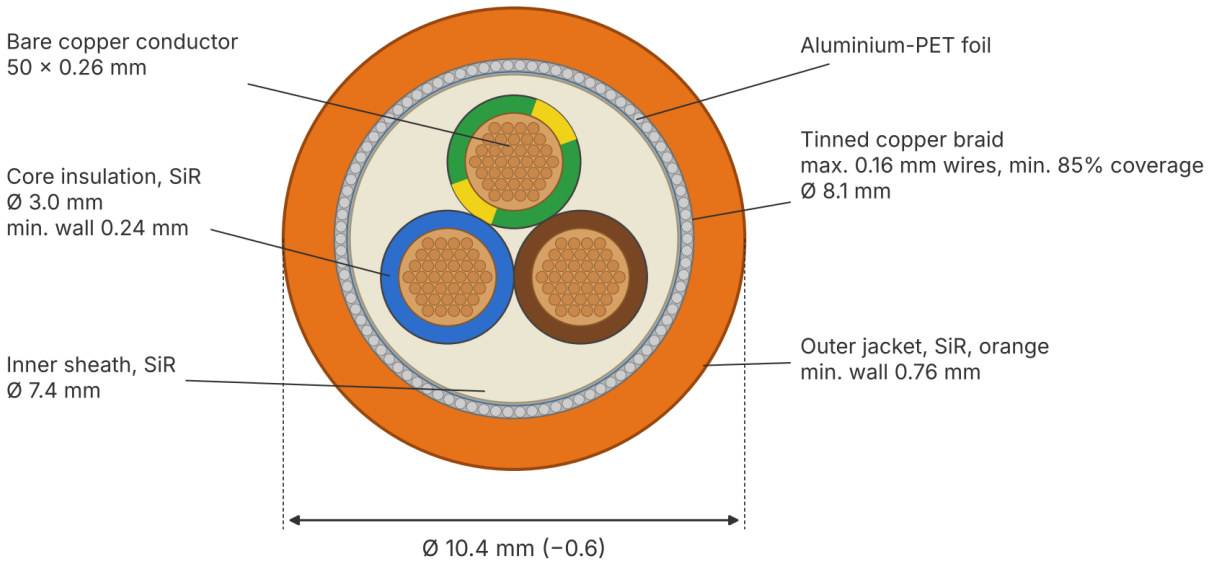
HEI Product Specification

HEI.001.024.053

23/11/2026



FHLR2GCB2G 3 × 2.5 mm² cross-section (not to scale; strand pattern illustrative)

Product overview

HEI.001.024.053 is Coroflex FHLR2GCB2G (9-2641) 3 x 2.5 mm², a 3-core, double-screened, high-voltage silicone cable for electric and hybrid vehicle power circuits, rated -40°C to +180°C.

Item	Detail
HEI part number And link to product	HEI.001.024.053
Manufacturer part number	Coroflex 9-2641
Cable type	FHLR2GCB2G
Cross-section	3 x 2.5 mm²
Sheath colour	Orange (similar to RAL 2003)
Core colours	Green-yellow, blue, brown (others on request)

Typical applications: three-phase and multi-circuit HV connections (motors, compressors, inverters, PDUs) in EV, marine and industrial systems where EMC screening is required.

Construction

Three silicone cores under a natural silicone inner sheath, a foil and tinned copper braid screen, and an orange silicone jacket, 10.4 mm overall.

Element	Specification
Conductor	Bare copper, Cu ETP1, 50 x max. 0.26 mm
Core insulation	Modified silicone rubber (SiR), min. wall 0.24 mm
Core diameter	3.0 mm (-0.3 mm)
Lay-up	3 cores, lay length 75 mm (±10 mm)
Inner sheath	SiR, natural, 7.4 mm (-0.4 mm), min. wall 0.38 mm
Screen, foil	Aluminium-laminated PET foil
Screen, braid	Tinned copper, 0.16 mm wires, min. 85% coverage, 8.1 mm
Outer jacket	Modified SiR, orange, min. wall 0.76 mm
Overall diameter	10.4 mm (-0.6 mm)
Weight	approx. 186 g/m

Electrical, thermal and mechanical properties

Property	Value
Voltage rating	600 V AC / 1000 V DC
Conductor resistance	max. 7.8 mΩ/m per core at 20°C
Screen resistance	max. 7.7 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	3 x cable diameter
Minimum bend radius, dynamic	6 x cable diameter

Current carrying capacity

Continuous and short-term current ratings (calculated to LV112-3) are available on request. Contact HE Infusion with your ambient temperature, number of loaded cores, routing and duty cycle.

Ratings depend on ambient temperature, the number of cores carrying current, bundling and routing; always confirm the rating for your installation.

Standards

Item	Detail
Design standards	LV 216-2, table A5; Daimler AG C53 / 4.142; VW N 107 839

Notes

Data is taken from the manufacturer's published specification 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	23/11/2026	FIRST ISSUE	MT