Certificate No: LR21139304TA
Issue Date: 14/04/2021
Expiry Date: 13/04/2026

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer **Nexans Suisse S.A.**

Address Av. François-Borel 17, 2016 Cortaillod, Switzerland

Type Cables Power

Description Flame retardant flexible single core connection cable

TYPE SIWO-KUL (1) (2) (3) (4) (5)
refer to the Appendix for details

Trade Name SIWO-KUL

Application Suitable for use as coil leads in motors, generators, transformers and switchgear in high temperature applications and similar internal connections of marine, offshore Industry equipment.

Specified Standard

IEC 60331-1: 2018
IEC 60331-21: 1999-04
IEC 60332-1-2: 2004+A1: 2015
IEC 60092-350: 2020 (partly)
IEC 60332-3-22: 2018
IEC 60332-3-24: 2018
IEC 60754-1: 2011+A1:2019
IEC 60754-2: 2011+A1:2019
IEC 61034-2: 2005+A2:2019
IEC 60502-2: 2014(partly)
IEC 60228: 2004
UL 758: ED3 (partly) - Styles 3640/3641/3642/3643

Martin Lange

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: This certificate supersedes certificate number 01/20034 (E5) issued on 06.05.2019 which is hereby cancelled.

The Design Appraisal Document HTS/ETS 41120-21/HN/ML and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

SIWO-KUL (1) (2) (3) (4) (5)

(1) Main families
- B (= Braid) braiding protection (=KUL+SIL)
- D (= Dual) without braiding protection, one or two layers of extruded silicone insulation
- S (= Screen) metal screen
- 2S (=2xScreen) double metal screen

(2) Covering
- braiding KUL [only for families B and S]
- braiding SIL [only for families B]
- silicone sheath (=SIR) [only for families S

(3) Conductor
- Conductor Class 5, tinned copper

(4) Voltage level
- 1.1, 3.3, 6.6, 13.8 kV

(5) Cross-section of conductor
- 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240,300, 400

Construction comprising:
- Stranded, flexible tinned copper to Class 5
- Semi-conducting SIR (6.6kV and 13.8kV only)
- Silicon rubber insulation (S95)
- Separator tape (option)
- Tinned copper braid (type SIWO-KUL S and SIWO-KUL 2S only)
- Protective synthetic yarn braiding, polyurethane varnished.

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