

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 UL 758: ED3 (partly) - Styles 3640/3641/3642/3643 IEC 61034-2: 2005+A2:2019 IEC 60502-2: 2014(partly) IEC 60228: 2004	



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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.

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.