Certificate No: LR21477208TA
Issue Date: 25/11/2021
Expiry Date: 24/11/2026

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	**WALSIN LIHWA CORPORATION - HSIN CHUNG**
Address	25F, No. 1, Songzhi Rd, Taipei 11047, Taiwan
Place of Production	WALSIN LIHWA CORPORATION - HSIN CHUNG PLANT, NO. 397, HSIN SHU RD., HSIN CHUNG DIST., New Taipei City, 24262, Taiwan
Type	Electrical Power Cables
Description	6/10kV, 3.6/6kV and 0.6/1kV Shipboard Power Cables
Trade Name	(FA-) SPY, (FA-) TPY, DPY series
Application	Fixed wiring on ships installations
Specified Standard	JIS 3410: 2018
Ratings	Rated voltage 6/10kV, 3.6/6kV non flame/flame retardant cables (FA-)SPYCB: Single core, EP rubber insulated, PVC sheathed and copper alloy wire braided cable (FA-)SPYCBY: Single core, EP rubber insulated, PVC sheathed and copper alloy wire braided cable with PVC protective covering (FA-)TPYC: Three core, EP rubber insulated, PVC sheathed and galvanized steel wire braided(flame retardant) cable (FA-)TPYC: Three core, EP rubber insulated, PVC sheathed and galvanized steel

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Ke Lin Zhang

Lead Specialist to Lloyd's Register
Classification Society (China) Co Ltd
A member of the Lloyd's Register group

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

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wire braided(flame retardant) cable with PVC protective covering
Rated voltage 0.6/1kV non flame/flame retardant cables
(FA-) D/TPY: Double/Three core, EP rubber insulated and PVC sheathed(flame retardant) cable
(FA-)S/D/TPYC: Single/Double/Three core, EP rubber insulated, PVC sheathed and galvanized steel wire braided (flame retardant) cable
(FA-)S/D/TPYCY: Single/Double/Three core, EP rubber insulated, PVC sheathed and galvanized steel wire braided (flame retardant) cable with PVC protective covering
(FA-)D/TPYCSLA: Double/Three core, EP rubber insulated, PVC sheathed and galvanized steel wire braided (flame retardant) cable with common shield
(FA-) D/TPYCYSLA: Double/Three core, EP rubber insulated, PVC sheathed and galvanized steel wire braided, PVC protective covered (flame retardant)cable with common shield
Rated voltage 0.6/1kV fire resistant/flame retardant cables and fire resistant cables
FR-(FA-) D/TPY: Double/Three core, EP rubber insulated and PVC sheathed(flame retardant) fire resistant cable
FR-(FA-)D/TPYC: Double/Three core, EP rubber insulated and PVC sheathed and galvanized steel wire braided (flame retardant) fire resistant cable
FR-(FA-) D/TPYCY: Double/Three core, EP rubber insulated and PVC sheathed and galvanized steel wire braided (flame retardant) fire resistant cable with PVC protective covering
Abbreviation:
FA: Flame retardant
FR: Fire resistant
S: Single core
D: Double core
T: Three core
EP: Ethylene-propylene rubber
PVC: Polyvinylchloride
SLA: Common shield with Aluminium foil-Mylar tape and drain wire
Rated Voltage(kV): 6 / 10
Types: (FA-) SPYCB, (FA-) SPYC(SUS)Y
No. of Cores: 1

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Conductor Cross- Section(mm²):16 to 300
Types: (FA-) TPYC, FA-) TPYCY
No. of Cores: 3
Conductor Cross- Section(mm²): 16 to 150
Rated Voltage(kV): 3.6 / 6
Types: (FA-) SPYCB, (FA-) SPYC(SUS)Y
No. of Cores: 1
Conductor Cross- Section(mm²):10 to 300
Types: (FA-) TPYC, (FA-) TPYCY
No. of Cores: 3
Conductor Cross- Section(mm²):10 to 150
Rated Voltage(kV): 0.6 / 1
Types: (FA-) SPYC, (FA-) SPYC(SUS)Y
No. of Cores: 1
Conductor Cross- Section(mm²):1.5 to 300
Types: (FA-) DPY, (FA-) DPYC, (FA-) DPYCY
No. of Cores: 2
Conductor Cross- Section(mm²):1.5 to 185
Types: (FA-) TPY, (FA-) TPYC, (FA-)TPYCY
No. of Cores: 3
Conductor Cross- Section(mm²):1.5 to 185
Types: (FA-)DPYCSLA, (FA-) DPYCYSLA
No. of Cores: 2
Conductor Cross- Section(mm²):1.5, 2.5, 4
Types: (FA-)TPYCSLA, (FA-) TPYCYSLA
No. of Cores: 3
Conductor Cross- Section(mm²):1.5, 2.5, 4
Types: FR-(FA-) DPY, FR-(FA-) DPYC, FR-(FA-) DPYCY
No. ofCores: 2
ConductorCross- Section(mm²): 1.5 to 185
Types:FR-(FA-)TPY, FR-(FA-) TPYC, FR-(FA-) TPYCY
No. ofCores: 3
Conductor Cross- Section(mm²): 1.5 to 185
Max. Temp.(°C): 90
Note: “Conductor Cross-Section” is selected from the following series of

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conductor size:-
1.5, 2.5, 4, 6, 10, 16, 25, 35,50, 70, 95, 120, 150, 185, 240, 300 mm^2

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 Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR21477208TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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