



Confirmation of Product Type Approval

Company Name: TELDOR CABLES & SYSTEMS LTD

Address: EIN DOR, 0 KIBBUTZ EIN-DOR 19335 Israel

Product: Cable, Control Cables For Shipboard and Marine Structure Electrical Installation

Model(s): Instrumentation / Control / Signal and Low voltage 300V-600V cables, Low Smoke, Zero Halogen, Flame retardant, Fire Resistant for Marine/OIL/GAS applications - MG Designation

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-GE1877522-PDA	22-AUG-2019	21-AUG-2024
Manufacturing Assessment (MA)	24-6314471	02-APR-2024	07-APR-2029
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Instrumentations, Control, Signal and Low Voltage cables for Marine, Offshore and OIL/GAS applications with Low smoke, Zero halogens and flame retardant and fire resistance characteristics.

Description

Instrumentation / Control / Signal and Low voltage 300V-600V/1000V cables for Marine, Oil/Gas and Offshore applications.

The cables are made from solid or stranded conductors, multi-core, multi-pair, multi-triads constructions and their combinations with FR-LSZH SHF1 / SHF2 / SHF2-Mud-resistant jackets.

The cables are flame retardant, fire resistant, Halogen free, Low smoke emission, Armored and Non-Armored.

The cables are oil resistant and designed for harsh conditions.

Ratings

Voltage: 300V-600V/1000V max.

Operating Temperature Range: - 40°C to + 95°C

Service Restrictions

1. Unit Certification is not required for this product.

2. Unit Certification is required where the cables are used for propulsion systems. All propulsion cables, other than internal wiring in control gears and switchboards, are to be subjected to dielectric and

insulation tests in the presence of the Surveyor (See 4-8-5/5.17.11 of 2019 Marine Vessels Rules).

3. Termination itself shall be in the outer sheath of the cable and conductors should be locked in place in order to avoid damage from vibration.

4. In order to achieve transmission compliant cables, these cables shall be installed with suitable termination equipment according to manufacturer's recommendations.

5. The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006. Unit Certification is not required for this product.

Comments

1. The Manufacturer has provided a declaration about the lack of Asbestos in this product.

2. The sheath shall be clearly marked with the following data as a minimum:

- Manufacturer's identification (name or trade name)
- Cable designation (Cable type) Number of fibers / cores
- Jacket type
- Armor Type
- Voltage rating
- Year of manufacture
- Batch number, Flame test, Meter mark.

The marking shall be repeated at least every 1,0 m.

Notes, Drawings and Documentation

Data Sheet Teldor Instrumentation 300V-600V Cables v15

Catalogue Offshore Rev.01/2015

TELDOR Test Report P/N 8MG0629101 dated 18/10/2015

TELDOR Test Report P/N 8MG0631101 dated 15/10/2015

TELDOR Test Report P/N 8MG0638101 dated 15/10/2015

TELDOR Test Report P/N 8MG0639101 dated 15/10/2015

TELDOR Test Report No.36 (P/N 9MGD240129-VER3) Particular Sheathing dated 06/02/2014

TELDOR Test Report No.36 (P/N 9MGD241239-VER3) Particular Sheathing dated 07/02/2014

BRE Global Test Report No. P100530-1 Issue 1 for IEC60754 SHF1 dated 1 July 2015

TELDOR Test Report No. 9DNV026101 for Mud Resistance dated 23 January 2014

TELDOR Test Report No. P/N 7MGF032108 for Nek 606: 2016 dated 15 July 2019

TELDOR Test Report No. P/N 8MG0036101 2Pairs Shielded SHF1 dated 11 January 2018

TELDOR Test Report No. P/N 8MG1186101 12Pairs Armored SHF2-MUD dated 11 January 2018

TELDOR Test Report No. P/N 8MG1296101 2x1.5 Fire Resistance SHF1 dated 11 January 2018

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 21/Aug/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2019 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2019 Steel Vessels Rules 4-8-3/9.1, 4-8-3/9.5, 4-8-3/9.13

2019 Offshore Support Vessels Rules, 4-8-3/9.1, 4-8-3/9.5, 4-8-3/9.13

2019 Steel Vessels Under 90 Meters (295 Feet) in Length Rules, 4-6-4/13.1.1, 4-6-4/13.1.2, 4-6-4/13.1.6

2019 International Naval Ships Guide 4-8-3/9.1, 4-8-3/9.5, 4-8-3/9.13

2019 Marine Vessels Rules 4-8-3/9.1, 4-8-3/9.5, 4-8-3/9.13

2019 Rules for Conditions of Classification – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2019 Mobile Offshore Drilling Unit Rules, 4-3-4/7.1.1, 4-3-4/7.1.2, 4-3-4/7.1.6

2019 Facilities on Offshore Installations Rules 3-6/13

2019 Mobile Offshore Unit Rules, 4-3-4/7.1.1, 4-3-4/7.1.2, 4-3-4/7.1.6

International Standards

IEC 60092-350 Edition 4.0 (2014-08)

IEC 60092-353 Edition 4.0 (2016-09)

IEC 60092-360 Edition 1.0 (2014-04)

IEC 60754-1 Edition 3.0 (2011-11)

IEC 60754-2 Edition 2.0 (2011-11)

IEC 60332-3-22 Edition 2.0 (2018-07)

IEC 60332-3-24 Edition 2.0 (2018-07)

IEC 61034-1 Edition 3.1 (2013-06)

IEC 61034-2 Edition 3.1 (2013-06)

IEC 60331-21 Edition 1.0 (1999-04)

IEC 60332-1-1 Edition 1.1 (2015-07)

IEC 60332-1-2 Edition 1.1 (2015-07)

IEC 60332-1-3 Edition 1.1 (2015-07)

IEC 60332-2-1 First edition (2004-07)

IEC 60092-376 Edition 3.0 (2017-05)

EU-MED Standards

NA

National Standards

NEK TS 606: 2016

Government Standards

NA

Other Standards

NA



A handwritten signature in dark ink, appearing to read "James J. Wilk".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 29-Jul-2024 7:54

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.