



## Confirmation of Product Type Approval

**Company Name:** TELDOR CABLES & SYSTEMS LTD

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

**Product:** Communication Cable

**Model(s):** Teldor MG Fiber Optic cables for Marine / Oil / Gas / Offshore applications, Single or Multi loose tube or Multi tight buffered, Flame retardant, Fire Resistance (optional), Low smoke, Zero Halogens, FR-LSZH/HFFR, Armored/Non-armored, Single mode / Multi mode / Step index fibers jacketed with SHF1 or SHF2 or MUD resistance (NEK 606) jacket types.

### Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-2527372-PDA	18-MAR-2024	17-MAR-2029
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

Data transmission, Communications and LAN Fiber-Optic cables for Marine, Oil/Gas, Offshore and Industrial applications.

### Description

Fiber Optic cables for Marine, Oil/Gas, Offshore and Industrial applications made from single-mode or multi-mode or step index fibers.

The cables are made by single/multi loose tube or tight buffered constructions with SHF1 / SHF2 / SHF2-Mud-resistant per NEK606 jackets. The cables are flame retardant per IEC60332-3 have fire resistant option per IEC60331-25, halogen free, low smoke emission, armoured and non-armoured.

### Ratings

5000V max.

Operating Temperature Range: - 40°C to + 85°C

### Service Restrictions

1. Unit Certification is not required for this product.

2. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

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. The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

### 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

TELDOR Fiber Optic Cables Specification v03 dated 14 February 2019

TELDOR Test Report & Documentation No.DA6MT002EDK1W01\_F60020239C dated 20 March 2012

TELDOR Test Report & Documentation No.DAMLD144DDJ1R01\_FM1441203B dated 20 March 2012

TELDOR Test Report & Documentation No.DN6BO002ED0K01\_F60020238C dated 20 March 2012

TELDOR Test Report & Documentation No.DNMLD072DD0J01\_FM0720605B dated 20 March 2012

BRE Global Test Report No.277021-1 - Teldor Cables DA-6MT002EDK1W01 dated 02 March 2012

BRE Global Test Report No.277021-2 - Teldor Cables DN-6BO002ED0K01 dated 02 March 2012

BRE Global Test Report No.277021-3 - Teldor Cables DB1B04S2401 dated 02 March 2012

BRE Global Test Report No.277021-4 - Teldor Cables DB5G04B2201 dated 02 March 2012

BRE Global Test Report No.277021-5 - Teldor Cables DA-MLD144DDJR01 dated 02 March 2012

BRE Global Test Report No.P100530-1 IEC60754 SHF1 BS6387 dated 01 July 2015

IMQ Test Report No.CN13S0197878-01 - Ozono - Teldor \_TR dated 18 December 2013

Teldor Test\_Report No.DN6BO002ED0K01\_F60020238C dated 20 March 2012

Teldor Test\_Report No.DAMLD144DDJ1R01\_FM1441203B dated 20 March 2012

Teldor Test\_Report No.DNMLD072DD0J01\_FM0720605B dated 20 March 2012

Teldor Test\_Report No.DA6MT002EDK1W01\_F60020239C dated 20 March 2012

F901201Y3B Multi Loose tube Corrugated Steel Armor Fire Resistance SHF1 Signed by DNV on 21-06-2016

F909608T7B Multi Loose Tube Galvanized Steel Wire Armor Fire resistance SHF1 by DNV on

21-06-2016

F901201BJB Single Loose Tube Non Armor Fire Resistance SHF1 Signed by DNV on 21-06-2016

F60040477S Multi Tight Steel Braid Armor Fire resistance SHF2 MUD Signed by DNV on 21-06-2016

### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 17/Mar/2029 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**

2024 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2024 Marine Vessels Rules 4-8-3/9

2024 Rules for Conditions of Classification – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2024 Mobile Offshore Unit Rules, 4-3-4/7

2024 Facilities on Offshore Installations Rules 3-6/13

### **International Standards**

IEC 60092-350 Edition 5.0 (2020-01)

IEC 60092-360 Edition 2.0 (2021-01)

IEC 60754-1 Edition 3.1 (2019-11)

IEC 60754-2 Edition 2.1 (2019-11)

IEC 60331-1 Edition 2.0 (2018-03)

IEC 60331-2 Edition 2.0 (2018-03)

IEC 60331-25 First Edition (1999-04)

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

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

IEC 61034-1 Edition 3.2 (2019-11)

IEC 61034-2 Edition 3.2 (2019-11)

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 60794-1-2 Edition 5.0 (2021-04)

ISO/IEC 11801-1 Edition 1.0 (2017-11)

### **EU-MED Standards**

NA

### **National Standards**

NEK TS 606: 2022

ANSI/TIA-568-3.D (2016-10)

BS 6387:2013

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in black ink, appearing to read 'Joseph W. ...', is positioned above the printed text.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 29-Jul-2024 7:53

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.