



*TELDOR... The Best Connection™*

# Custom Defense Cables

Defense

Shipboard

HLS

Harsh Environments

Teldor Defense Cables

Table of contents
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Title	Page
Introduction Pages	2
Tactical Ground Cables	4
Shipboard Cables	6
Homeland Security Cables	8
Closing Pages	10

## ***TELDOR CABLES & SYSTEMS Ltd.***

### ***Company Profile***

A defense cable manufacturer for over 45 years, Teldor Cables & Systems has the approvals and expertise to design and manufacture highly specialized, often custom designed, defense standard cable solutions, approved according to some of the toughest military specifications in the world.

All Teldor defense Cable products are specified and made to order, so a cable can be tailored to meet your specific requirements; conductors and insulations can be mixed in combinations that are outside of the normal off-the-shelf solutions; screens and armours can be arranged exactly as you need them; wall thicknesses of both insulation and jacket materials can be adjusted to fulfill your requirements and to provide you your Custom Design Cables!

Teldor specializes in the design and manufacture of custom design products where the requirements are for high performance cables. We provide conductor, screen, insulation and jacket designs to specific requirements. Because no two Customers' requirements are ever the same, Teldor's portfolio extends beyond traditional standard multicore cables to produce high performance custom designed cables and cable assemblies to meet our Customers' needs.

Supply within the Defense industry often depends on approvals and specifications. Teldor Cable has met this challenge with a variety of material combinations to meet some of the most demanding military applications.

### ***Engineering***

- Product development management (from DRD to FDR)
- Consulting (materials, processing, applications, standards)
- Custom design (technical specs., drawings, modeling, prototype)
- Product verification (test regimes, standards conformance, simulations)
- Senior engineers with expertise in polymers, conductors, strength elements, advanced transmission systems
- Technology forecasting (based on active participation in all major national and international standards organizations)
- Rapid turnover, full NDA's, ISO 9001:2008 certified

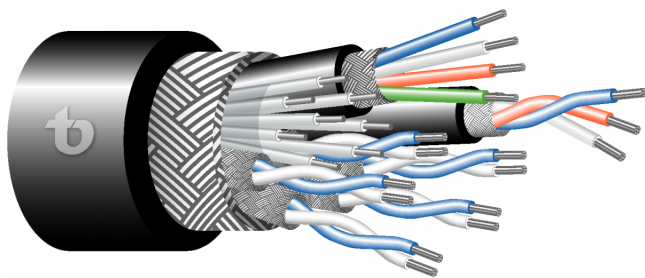
### ***Processing***

- Drawing, stranding and insulation of conductors
- Precise twinning and cabling (twist, planetary, reverse oscillating)
- Extrusion of polymers (thermoplastics, thermosets, PVC, HFFR, TPU, TPE, PEE and many more)
- Armoring and shielding (wire braid, served wire, Moisture Barrier, corrugated steel, dielectric materials)
- Polymer compounding and granulation
- Precise process control
- Winding, spooling and packaging

### ***Testing***

- Fully equipped hi-frequency lab
- OTDR and OLS-PM testing for all major optical fibers and wavelengths
- Fully equipped mechanical testing laboratory
- Fully equipped chemical and materials testing laboratory
- Electric testing laboratory (up to 50 kV)
- Environmental testing (Temperature, Permeability, UV, Flame, Aging)
- Issuing of C.O.Cs and C.O.Ts



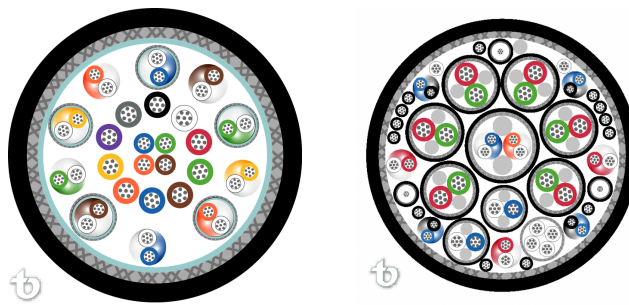


Teldor is one of the leading Manufacturers of special cables, active in many defense fields including electronic warfare systems, military local area networks, military vehicles and radio communications systems. Recent successes include halogen-free cables for Electronic Warfare Systems and Weapon Control Systems for ships, and lightweight ruggedised cables for vehicle mounted communications systems.

### **Typical Applications include:**

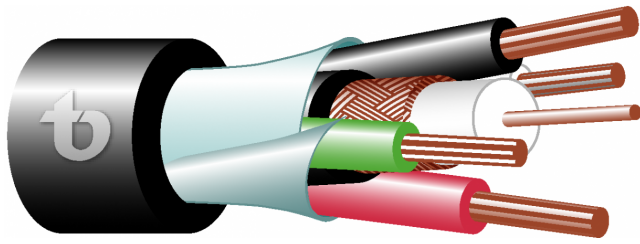
- Defence Cables
- Cables for Land Forces in particular Land Vehicles
- Future Soldier Systems
- Military communications





**Examples of Custom Tactical Ground cables**

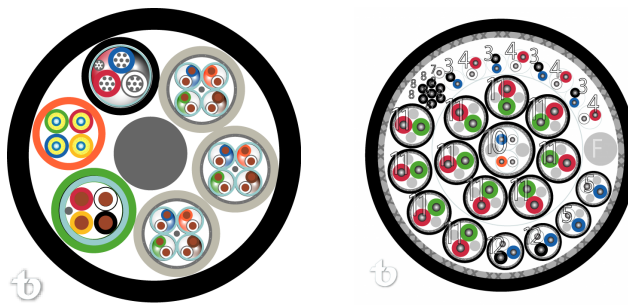
<b>Teldor P/N</b>	<b>Product Description</b>	<b>Insulation Material</b>	<b>Outer Jacket Material</b>	<b>Max. Operating Temperature (°C)</b>
827C6T5101	Tactical STAR Cat. 6 4x2x23/7 AWG S/UTP STR150	FEP	STR-150	+ 145
9847350101	Combi 50x2x22 AWG XLETFE Overall Braid Shielded Control Cable	XL ETFE - 65°C to 150°C	PTR-150	+905
9845302101	26 Conductor Shielded Control Cable	ETFE	PU	+80
4T00370101	25x28 AWG + 2x2x26 AWG SF/UTP + 2xUSB OBS PTX150	0	PTX-150	+95
90EL006101	20 Conductor cable Double braid shield- STR150 jacket	0	STR-150	+90
9022T13101	13x2x22 AWG Individuall and Overall Braid Shielded Cable	ETFE	STR-150	+150
98ET612101	12x3x16 AWG ETFE F/FTT Control Cable with PTX 150 Jacket	ETFE	PTX-150	+125
90EL003101	5X(RS232+LVDS)+10X22 AWG+4X24 AWG	FEP	STR-150	+90
90P1910101	10x(2x22 AWG IBS) OBS RS-485 Armored Data Cable	Cellular PO	FR-PU	+70
4T00E10101	4(2x24 U/FTP RS485/422) + 4X22 OBS STR150	0	STR-150	+70
9ELXP01101	2x2x24/7 SF/UTP C5 + 2X12 AWG OBS PTX150	0	PTX-150	+95
4T00E21101	(2x2x24 AWG S/FTP + 4x2x24 AWG SF/UTP + VGA +RG179 +24AWG) OBS+OFS XL jacket	0	HTX-125	+80



Teldor Cables & Systems has worked in the naval defense field for more than 45 years. We fully understand customers' requirements in projects ranging from submarine-based applications to surface ships. Teldor designs and manufactures a wide range of naval cables for inboard and outboard systems.

Typical Applications include:

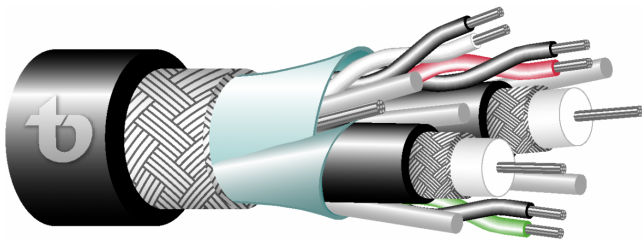
- Missiles
- Fire guidance control
- Weapon Systems
- Engine compartment
- Reactor compartment
- Fire survival systems
- Communications cables
- Surface ships and submarines
- Towed arrays
- Mine detection cables
- Underwater Weapons



**Examples of Shipboard Cables**

Teldor P/N	Product Description	Insulation Material	Outer Jacket Material	Max. Operating Temperature (°C)
4T00019101	Hybrid 3x(4x2x23/1 S/FTP)+(EIB 2x2x0.8 mm F/UTP)+(3x1.5 mm <sup>2</sup> FPE)+4G50/125 XLHFFR	0	XL - HFFR	+75
902MB01101	COMBI-CABLE TYPE-B HTX 125 Jacket	HFFR	HTX-125	+85
902MA01101	COMBI-CABLE TYPE-A HTX 125 Jacket	HFFR	HTX-125	+85
91COB27107	27 Conductor OBS Shielded Combined HFFR Control Cable	0	PTR-150	+80
9LS2319101	19x(2X22 AWG IBS +J XL-HFFR) Overall Braid Shielded Control Cable with HTX Jacket	XL-HFFR	HTX-125	+125

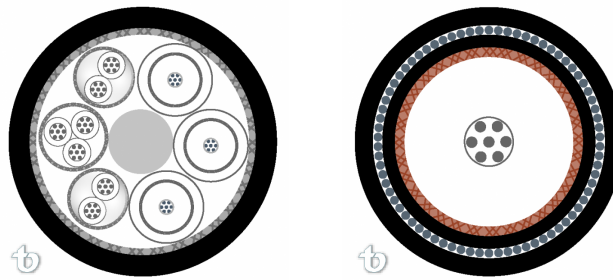




With extensive experience in innovative designs, Teldor has been involved in the development of many modern HLS cable constructions and has remained at the forefront of the material technologies used in this field.

Typical Applications include:

- Optical field deployable cables
- Command and communication cables
- Detonator cables
- Field telephone cables
- Data communications cables
- CCTV & Armored Coaxial cables
- Perimeter Intrusion Detection Security cables



**Examples of HLS Cables**

<b>Teldor P/N</b>	<b>Product Description</b>	<b>Insulation Material</b>	<b>Outer Jacket Material</b>	<b>Max. Operating Temperature (°C)</b>
90XH606101	6x2x16 AWG XL-HFFR U/FTP Control Offshore Cable	XL-HFFR 125°C	XL - HFFR	+125
FH0020216B	HYB-SDB-0-9-02YT/KU+2X16 AWG-WU	0	PU	+85
9026P10101	COMBI (7x26AWG + 3xRG-179 B/U) OBS Cable	0	PTR-150	+90
63059AH101	RG-59 B/U Armored SWA Coaxial Cable for Offshore Installations	PE	XL - HFFR	+80

#### **TELDOR CABLES & SYSTEMS LTD.**



#### **1) Governing Terms**

- a) These terms and conditions apply to all products sold by Teldor Cables & Systems Ltd., an Israeli corporation ("Teldor"), to the Buyer.
- b) Any addition, deletion or alternation proposed by the Buyer but not expressly agreed and confirmed in writing by the Buyer, shall not bind the parties and shall not constitute part of the contract.

#### **2) Delivery**

- a) Teldor shall use reasonable efforts to adhere to the stated delivery date, but Teldor shall not be liable for any loss resulting from any delay in delivery, nor shall the Buyer be entitled to cancel the contract by reason only of Teldor's failure to deliver at the stated time.
- b) The products shall be delivered in accordance with the provisions of the specific INCOTERMS 2000 specified.
- c) Where products are delivered in installments, each installment shall be deemed a separate sale. Default of Teldor in respect of any one or more installments shall not entitle the Buyer to repudiate the contract with regard to any other installments.

#### **3) Risk and Title**

- a) Risk or loss or damage to and in the products, including associated risk of hazard, shall pass to the Buyer upon delivery.
- b) The products shall remain the property of Teldor unless and until Teldor receives all payments due for the products. Until used, the Buyer shall not remove, or obscure any label or marking which may allow the products to be identified. When the products are incorporated into another product by the Buyer or otherwise, title to such other products shall vest in Teldor until payment in full as aforesaid. The Buyer shall be entitled to sell such other product to a third party before such payment, provided that all sums received by the Buyer with respect to the sale of such other product be held in trust for the benefit of Teldor in a separate bank account until payment in full for the products.

#### 4) Price and Payment

a) The purchase price to be paid for the products and the terms of payment shall be as agreed in writing between Buyer and Seller. Teldor may at any time require the Buyer to provide security satisfactory to Teldor.

b) Unless otherwise specified overleaf, prices are exclusive of VAT, duties, taxes, levies, imposts, deposits or surcharges related to the importation or otherwise, which shall be paid by the Buyer.

c) The Buyer may not, for any reason whatsoever, withhold any payment or claim any right of deduction or set-off against any payment payable under the contract.

d) If the Buyer is in default in respect of the payment of any sum payable under the contract, then without prejudice to Teldor's other rights and remedies, the Buyer shall pay Teldor cumulative interest on all overdue sums at the rate of 5% above the London Inter Bank Rate for the currency of the contract, as certified by Teldor's bankers.

#### 5) Claims, Warranty and Limited Liability

a) The Buyer must examine the applicable products immediately upon receipt of shipment. Claims for partial or total non-delivery due to fault of Teldor must be made to Teldor within 10 days of receipt of shipment. In such situations, Teldor shall have the right to examine the applicable products in their original form and the shipping records at the Buyer's location. Failure to make a claim within said 10 days shall mean the products are deemed delivered in accurate numbers and the full invoice shall be payable.

b) Teldor warrants that the products, under normal use, shall meet in all material respects the specifications of Teldor for such products as reflected in the respective Teldor Data Specifications Sheet, for the following periods of time from the time of completion of production (the "Warranty Period"):

A Warranty Period of 15 years shall apply to the products expressly listed below only:

- Data transmission cables with 100  $\Omega$  characteristic impedance, made of twisted pairs, designated as Category 5, Category 5e, Category 6, Category 6<sub>A</sub>, Category 7, Category 7<sub>A</sub>, or "Category 8"
- Data transmission cables made of optical fibers
- Instrumentation, Control and signal cables made of copper conductors
- Telecom cables made of twisted pairs of copper conductors
- Low voltage electric power cables
- Coaxial, Twinaxial and Triaxial cables
- Electronic and Audio cables for analog and/or digital transmission
- Industrial Ethernet or Industrial BUS cables

A Warranty Period of one year shall apply to all products, other than those expressly listed above.

- c) Teldor warrants further that at the time of delivery the products shall be adequately contained, packed and labeled and conform in all material respects to statements made by Teldor on any container packaging or label.
- d) Under no circumstances shall Teldor be liable for any repair or replacement needed in whole or in part (i) as a result of inappropriate environment, improper storage, transportation, handling, installation, use, removal, modification, maintenance or repair, negligence or fault, by any party other than by Teldor; or (ii) as a result of accident.
- e) During the Warranty Period Teldor shall, at Teldor's discretion, either repair, replace or give credit for the purchase price of, any defective products found to fail to comply with this Warranty and returned by the Buyer to Teldor. In no event shall Teldor be liable for damages in excess of the purchase price received by Teldor for the product. Teldor shall acquire the ownership of all the products that have been replaced or given credited for. This Warranty shall also apply to the repaired or replacement part during the remaining portion of the Warranty Period, if any.
- g) This Warranty applies only if (i) Teldor has received a written notice from the Buyer giving details of the defective item before the end of the Warranty Period, (ii) Teldor has been afforded a reasonable opportunity to inspect the item in question, and (iii) the Buyer has provided at its expense all assistance and support needed by Teldor to fulfill its obligations under this Warranty.
- h) To the extent permitted by applicable law, this Warranty is exclusive and constitutes the entire warranty and liability of Teldor with respect to the products, and all other warranties or liabilities imposed or implied by statute, law or custom are explicitly excluded. In no circumstances shall Teldor have any liability for consequential or indirect loss or damage no matter how arising, or of any loss arising out or in connection with the ability or inability to use the products. Teldor expressly excludes liability for all costs associated with the installation of the replacement items, the removal of the items being removed, and the repair of defective items other than at Teldor's premises.

#### **6) Buyer's Default**

- a) Without prejudice to other rights and remedies available, Teldor shall be entitled to immediately terminate in whole or in part the contract, or to immediately suspend all or any further deliveries, if:
- i) any sum is due and payable under any contract between the parties and remains unpaid; or
  - ii) the Buyer fails to take delivery of any products under any contract between the parties; or
  - iii) the Buyer becomes insolvent or has a winding up resolution or order passed or made or has a receiver appointed or suspends payments of its debts in whole or part or has proposed or entered into any composition or arrangement with creditors or is the subject of a bankruptcy order, or any equivalent proceeding takes place under the laws in which the Buyer is incorporated, carries on businesses or has assents.

b) Additionally, in the event of any such action, Teldor shall be entitled to require prepayment and such security, as it may deem necessary as a condition to resuming delivery under this or any other contract with the Buyer.

### 7) Intellectual Property

a) The Buyer acknowledges Teldor's sole ownership of all present and future right, title and interest to any and all trademarks and trade names, homologations, product registrations, patents, all applications relating to any of the know-how and other intellectual property relating in any way to the TELDOR trade name or products. The Buyer will not impair its right, title, or interest to any such intellectual property.

b) The Buyer will not use the trade name "TELDOR" and trademarks owned by Teldor in any manner or for any purpose except, to the extent permitted by Teldor to designate products purchased by the Buyer from Teldor.

### 8) Force Majeure

Seller shall not be liable for any delay or failure in the performance of its obligations, when such delay or failure results in whole or in part from shortages or disruption in the supply of materials from normal sources, shortage of means of transport, floods, fire, act of God, war, riot, civil insurrection, strikes, lock-outs, industrial unrest, inclement weather, acts of civil or military authorities, or circumstances beyond Teldor's reasonable control or force majeure.

### 9) Notices

Notices under any contract between the parties shall be in writing and shall be deemed to have been duly given 14 days after being mailed by prepaid registered air mail, or three days after being transmitted by facsimile or manually delivered, addressed to the stated addresses of Teldor and the Buyer.

### 10) Assignment

The Buyer shall not assign the contract or any of the Buyer's rights or obligations under the contract without the prior written consent of Teldor.

### 11) Governing Law and Jurisdiction

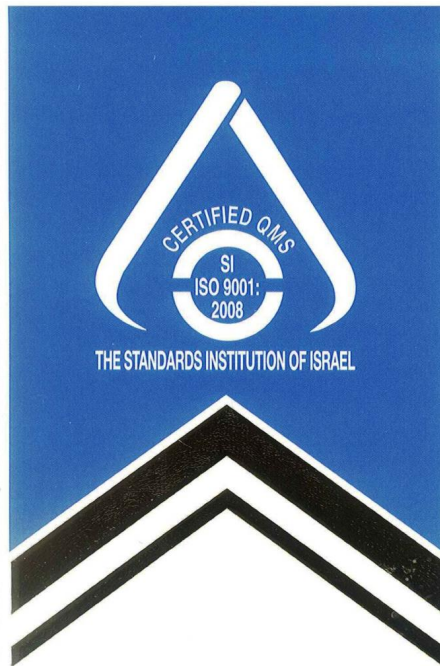


The laws of The State of Israel shall govern the contract. All disputes in connection with the contract shall be subject to the exclusive jurisdiction of the competent courts of the District of Tel Aviv, unless Teldor prefers another competent jurisdiction.

#### 12) Entire Agreement and Amendment

These terms and conditions contain the entire agreement between the parties with respect to the subject matter hereof; and may not be amended other than by a written agreement signed by Teldor and the Buyer.





# Certificate

This is to certify that the  
Quality Management System  
of

**TELDOR CABLES & SYSTEMS LTD**

**EIN-DOR, GESHUR, ISRAEL**

*has been audited by SII and found to comply with the Quality Management Standard SI ISO 9001: 2008*

**scope:**

MANUFACTURE AND DESIGN OF WIRES & CABLES FOR

TELECOMMUNICATION, INSTRUMENTATION, ELECTRONICS,

DATA COMMUNICATION AND ELECTRICAL PURPOSES.

*The Certificate is granted in accordance with SII's Rules for the Certification of Quality Systems (SII procedure-002). The validity of the Certificate is subject to the continuous maintenance of the Quality System according to the above standard, and the follow-up surveillance performed by SII. Further clarifications regarding the scope of the certificate and applicability of ISO 9001:2008 requirements may be obtained by consulting the organization.*

Date of initial approval: 16 . 03 . 1993  
Date of expiration: 15 . 01 . 2013

License No: 52665  
Date of issue: 06 . 01 . 2010

[www.sii.org.il](http://www.sii.org.il)

THE STANDARDS INSTITUTION OF ISRAEL



Doron Tamir  
Director General



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