



# Offshore Cable Solutions

COPPER DATA

BUS

INSTRUMENTATION

FIBEROPTIC



*TELDOR... The Best Connection™*

# ***TELDOR Offshore Cable Applications***



***TELDOR...The Best Connection™***

## Teldor Offshore Cable Solutions

### Introduction Pages



**Teldor Cables and Systems**, established in 1966, designs and manufactures over 6,500 cables for a wide range of applications including both onshore and offshore installations. Teldor supplies quality products globally to hundreds of customers in all 5 continents. New cables are designed constantly, with a focus on data-communication cables for ship and offshore applications. The cables are approved by DNV/ABS and certified by 3rd party independent testing laboratories to meet all relevant international standards. All of our DNV/ABS approved cables are supplied with unique cross-linked, flame-retardant low smoke zero halogen jacketing materials. Many of our DNV/ABS cables meet the stringent IEC 60331 flame test for circuit integrity to be used in "Mission Critical" applications. In addition to the following DNV/ABS cable groups, we also design and manufacture custom and hybrid cable constructions.

**Copper Data Cables for the Shipping Industry and Offshore Installations** - These cables are fully compliant with the IEC 61156 standards. All designs in this catalog are DNV/ABS approved for ship, onshore and offshore use.

**FiberOptic Cables for Data Communication and Emergency Systems** - Our FiberOptic cables, for indoor, indoor/outdoor and outdoor use, are for vital rapid communication and emergency systems required to be operational during a fire for more than three hours. You can find many of the hundreds of options available with Teldor DNV/ABS FiberOptic Cables in the FiberOptic chapter of this catalog.

**Instrumentation and Control Cables for Ship, Onshore and Offshore Installations** - Covering the most extensive range available of conductors, lay-up, shielding and armoring and voltage options, Teldor's Instrumentation and Control cables for the entire onshore, offshore and shipboard industry cannot be surpassed.

**Bus Cables for Ship, Onshore and Offshore Installations** - When combining data communication cabling with an industrial environment either onshore or offshore, use Teldor's DNV/ABS Approved BUS or Industrial Ethernet Cables. Whether you require CanBUS, FieldBUS, InterBUS, DeviceNET or RS-485 cables, with any shielding and armoring option, and varying pair counts, Teldor Cables and Systems is your "one-stop-DNV/ABS-cable-shop"!

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

### ***Company Profile***



TELDOR is a world-class cable manufacturer committed to innovation and excellence. We have continually lived up to that commitment with the help of the best personnel, the latest equipment and future-oriented management. Today, TELDOR is recognized as a leading cable manufacturer in almost all the markets where cables are sold and installed. The company was established in 1966, with the intent of manufacturing power and telecommunication cables. Over the years it has diversified to additional fields, always seeking the most competitive and profitable markets.

TELDOR products are sold and distributed in more than 25 countries on all 5 continents. Fifty-five percent (55%) of all sales are exported. TELDOR cables can be found in the most prestigious cabling projects all around the world, marked either with the *TELDOR* brand name or with one of the many international cabling companies to whom we provide cable with a private label. TELDOR is a certified supplier to many companies and organizations such as Panduit, Hubbell, RIT, Leviton, RW-Data, Israeli Air Force, Israel's Department of Defense, ECI Telecom, and more.

TELDOR also anticipates the demands of future markets with progressive research and development. The company continuously monitors and interprets industry trends, and uses state-of-the-art R&D methods to introduce innovative new products that meet the needs of the rapidly changing market.

TELDOR utilizes the most advanced marketing methods, including a state-of-the-art Internet site at [www.teldor.com](http://www.teldor.com). TELDOR's engineers lecture in international seminars and training sessions all over the world. They also represent Israel in international standardization organizations such as ISO/IEC, IEC, and IEEE.

TELDOR's quality system is approved to conform to the requirements of ISO-9001:2008. In addition, many of TELDOR's products are approved and verified by national and international certification bodies such as UL, ETL and SII.

### ***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

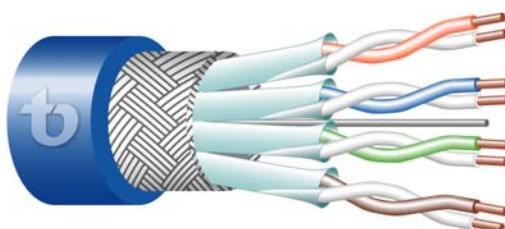
### ***Testing***

- Fully equipped hi-frequency laboratory
- 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

### **Cable Performance Icons**

Teldor Cable Catalogues use a system of easily recognizable icons to indicate cable performance. The icons that appear in each cable family chapter indicate characteristics common or available in that particular family. Below is a legend of the icons used throughout this catalogue and their meaning:

	UV Sunlight Resistant		Rodent Resistant
	Flame Retardant		Water-blocked
	Oil / Fuel Resistant		Enhanced Tensile Strength
	Enhanced Crush Resistance		Electromagnetically Shielded / Dielectric
	Enhanced Flexibility		Armored - Direct Burial
	Aerial Applications		Very Cold Environments
	Very Hot Environments		Robotic / Chain Applications
	Highly Impact Resistant		For Petrochemical Environments



With over 40 years of cable design and manufacturing experience catering the most discerning of industry professionals, Teldor has the capability of providing a complete portfolio of DNV/ABS approved Twisted-pair data cables for ships, light and high-speed marine craft , oil and gas offshore applications. In the following pages we have put together a small sampling of the hundreds of products available.

International cable design standards: IEC 60092-350, 61156-5/6/7, 60332-1-2, 60332-3-22/24

Conductors: Tinned or Bare, solid or stranded copper IEC 60228 Class 2 / Class 5

Insulation: Solid / cellular PO IEC 61034-1/2, 60754-1/2

Cable Lay-up: Pairs, quads

Screens:

- U/UTP (fully unshielded)
- U/FTP (individual foil shielded pairs)
- F/FTP (individual and overall foil shields)
- S/FTP (individual foil and overall copper braid shields)
- optional overall stranded tinned copper drain-wire

Bedding/Inner jacket: Halogen-Free compound SHF1 or SHF2 per IEC 60092-360, 61034-1/2, 60754-1/2

Armor: IEC 60092-350

- Tinned Copper braid
- Bare copper braid
- Bronze wire braid
- Galvanized steel wire braid
- Galvanized steel wire armor

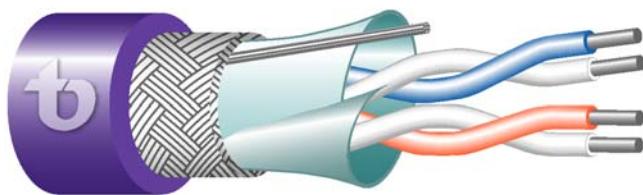
Outer jacket: IEC 60092- 360, 60092-376, 61034-1/2, 60754-1/2, 60811-2-1, NEK 606

- Halogen-free compound - SHF1
- Halogen-free compound - SHF2
- MUD resistant Halogen-free compound - SHF2



**Some Examples of Teldor Offshore Computer & LAN Cables**

Teldor P/N	Product Description	Frequency Range (MHz)
9MG0575xxx	Cat. 5e 4x2x24/1 AWG SF/UTP SBA LSZH-SHF1	1 - 250
9MG0563xxx	Cat. 5e 12x(4x2x24/1 AWG F/UTP) LSZH-SHF1	1 - 100
9MG0542xxx	Cat. 6 4x2x23/1 AWG U/UTP LSZH-SHF1	1 - 400
9MG0246xxx	Cat. 6 4x2x23/1 AWG S/FTP SBA LSZH-SHF2-MUD	1 - 400
9MG0025xxx	Cat. 6 4x2x23/1 AWG S/FTP SBA LSZH-SHF2	1 - 400
9MG0266xxx	Cat. 6 2x(4x2x26/7 AWG S/FTP) FIG-8 LSZH-SHF2	1 - 250
9MG0253xxx	Cat. 6 <sub>A</sub> 4x2x23/7 AWG S/FTP LSZH-SHF2-MUD	1 - 600
9MG0023xxx	Cat. 6 <sub>A</sub> 4x2x23/7 AWG S/FTP SBA LSZH-SHF2	1 - 500
9MG0545xxx	Cat. 6 <sub>A</sub> 4x2x23/1 S/FTP LSZH-SHF1	1 - 500
9MG0567xxx	Cat. 6 <sub>A</sub> 4x2x23/7 AWG S/FTP SBA LSZH-SHF1	1 - 500
9MG0543xxx	Cat. 7 4x2x23/1 S/FTP LSZH-SHF1	1 - 600
9MG0561101	Cat. 7 4x2x23/1 AWG S/FTP SBA LSZH-SHF1	1 - 600
9MG0568xxx	Cat. 7 4x2x23/7 AWG S/FTP SBA LSZH-SHF1	1 - 600
9MG0263xxx	Cat. 7 4x2x23/7 AWG S/FTP SBA LSZH-SHF2-MUD	1 - 600
9MG0369xxx	Cat. 7 4x2x24/7 AWG S/FTP LSZH/LSZH-SHF2	1 - 600
9MG0269xxx	Cat. 7 4x2x24/7 S/FTP LSZH-SHF2	1 - 600
9MG0002xxx	Cat. 7 4x2x26/7 AWG S/FTP LSZH-SHF2	1 - 600
9MG0008xxx	Cat. 7 4x2x26/7 AWG S/FTP SBA LSZH-SHF2	1 - 600
9MG0553xxx	Cat. 7 <sub>A</sub> 4x2x22/1 S/FTP LSZH-SHF1	1 - 1000
9MG0554xxx	Cat. 7 <sub>A</sub> 4x2x23/1 S/FTP LSZH-SHF1	1 - 600
9MG0016xxx	Cat. 7 <sub>A</sub> 4x2x23/1 AWG S/FTP LSZH-SHF2	1 - 1000
9MG0019xxx	Cat. 7 <sub>A</sub> 4x2x26/7 AWG S/FTP SBA LSZH-SHF2	1 - 1000
9MG0003xxx	1200 MHz 4x2x22/1 AWG S/FTP LSZH-SHF2	1 - 1200



With over 40 years of cable design and manufacturing experience catering the most discerning of industry professionals, Teldor has the capability of providing a complete portfolio of DNV/ABS approved BUS and Industrial Ethernet cables for ships, light and high-speed marine craft , oil and gas offshore applications. In the following pages we have put together a small sampling of the hundreds of products available.

## International cable design standards:

IEC 60092-350, 60092-376, 60332-1-2, 60332-3-22

## Conductors: Tinned or Bare, solid or stranded copper

IEC 60228 Class 2 / Class 5

## Insulation: Solid / cellular PO

IEC 61034-1/2, 60754-1/2

## Cable Lay-up: Pairs, quads

## Screens:

- U/UTP ( fully unshielded)
- U/FTP (individual foil shielded pairs)
- F/FTP (individual and overall foil shields)
- S/FTP (individual foil and overall copper braid shields)
- SF/UTP (overall foil and copper braid shields)
- optional overall stranded tinned copper drain-wire

## Bedding/Inner jacket: Halogen-Free compound

SHF1 or SHF2 per IEC 60092-360, 61034-1/2, 60754-1/2

## Armor:

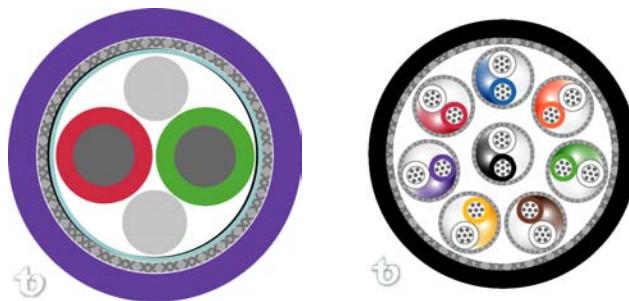
- Tinned Copper braid
- Bronze wire braid
- Galvanized steel wire braid
- Galvanized steel wire armor

## Outer jacket:

IEC 60092-350

- Halogen-free compound - SHF1
- Halogen-free compound - SHF2
- MUD resistant Halogen-free compound - SHF2

IEC 60092-360, 61034-1/2, 60754-1/2, 60811-2-1, NEK 606



**Some examples of Offshore BUS and Industrial Ethernet Cables**

Teldor P/N	Product Description	O.D. (mm nom.)	Weight kg. (kg/km)
7MG0013xxx	RS-485 2x2x22/7 AWG SF/UTP SHF2	12.5	175
7MG0015xxx	RS-485 2x2x22/7 AWG SF/UTP SBA LSZH-SHF2	16.4	350
7MG0025xxx	RS-485 4x2x1.5 mm <sup>2</sup> SF/UTP LSZH-SHF1	17.5	270
7MG0004xxx	RS-485/422 2x2x22/7 AWG SF/UTP SBA LSZH-SHF2-MUD	16.2	380
7MG0003xxx	RS-485/422 8x2x22/7 AWG SF/UTP LSZH-SHF1	18.0	170
7MG0011xxx	RS-485/422 2x2x24/7 AWG F/FTP SBA LSZH-SHF2	12.0	215
7MG0030xxx	CanBus 2x2x0.75 mm <sup>2</sup> S/UTP LSZH-SHF2	15.5	235
7MG0039xxx	CanBus 2x2x0.75 mm <sup>2</sup> S/UTP LSZH-SHF1	13.3	170
7MG0040xxx	CanBus 2x2x0.75 mm <sup>2</sup> S/UTP SBA LSZH-SHF2	19.5	480
7MG0059xxx	CanBus 2x0.75 mm <sup>2</sup> + 0.75 mm <sup>2</sup> S/FTP LSZH-SHF2	10.5	130
7MG0031xxx	DeviceNet 2x18/19 AWG + 2x15/19 AWG S/FTP LSZH-SHF1	12.0	185
7MG0032xxx	DeviceNet 2x18/19 AWG + 2x15/19 AWG S/FTP SBA LSZH-SHF2	18.0	480
7MG0033xxx	DeviceNet 2x18/19 AWG + 2x15/19 AWG S/FTP LSZH-SHF2	13.5	230
7MG0027xxx	DeviceNet 2x20/7 AWG + 2x22/19 AWG S/FTP SBA LSZH-SHF2	13.5	280
7MG0026xxx	DeviceNet 2x20/7 AWG + 2x22/19 AWG S/FTP LSZH-SHF1	10.0	105
7MG0021xxx	ProfiBus PA 2x18/7 AWG SF/UTP LSZH-SHF1	9.5	120
7MG0009xxx	ProfiBus 2X22/19 AWG SF/UTP CSA LSZH-SHF2	14.2	310
7MG0061xxx	ProfiBus DP/PA 1x2x22/1 AWG SF/UTP SBA LSZH-SHF1	12.0	215
7MG0008xxx	ProfiBus DP 2X22/19 AWG SF/UTP LSZH-SHF2	8.4	91

**Some examples of Offshore BUS and Industrial Ethernet Cables**

<b>Teldor P/N</b>	<b>Product Description</b>	<b>O.D. (mm nom.)</b>	<b>Weight kg. (kg/km)</b>
7MG0020xxx	ProfiBus DP 2x22/19 AWG SF/UTP SBA LSZH-SHF1	12.0	250
7MG0028xxx	ProfiBus DP 2x22/19 AWG SF/UTP SBA LSZH-SHF2-MUD	14.1	325
7MG0043xxx	Fieldbus Foundation H1 Class A 5x2x1,0 mm <sup>2</sup> S/FTP SWA LSZH-SHF2	26.0	1200
7MG0044xxx	Fieldbus Foundation H1 Class A 8x2x1,0 mm <sup>2</sup> S/FTP SWA LSZH-SHF2	30.0	1470
7MG0047xxx	Fieldbus Foundation H1 Class A 1x2x1.3 mm <sup>2</sup> SFTP SWA LSZH-SHF2	14.2	380
7MG0048xxx	Fieldbus Foundation H1 Class A 5x2x1.3 mm <sup>2</sup> S/FTP SWA LSZH-SHF2	28.5	1285
7MG0049xxx	Fieldbus Foundation H1 Class A 8x2x1.3 mm <sup>2</sup> S/FTP SWA LSZH-SHF2	29.5	1460

## CABLE NETWORK SOLUTIONS

### MARINE, OIL & GAS DNV-GL & ABS CABLE SOLUTIONS

Optical Fibers, and Copper Conductors. Special designs with Unique Protection Layers for Harsh Environmental Conditions. Data cables BUS and Industrial Ethernet, for shipboard, offshore installations, Engine rooms, shipyards, Light and High-speed Marine Craft



### INSTRUMENTATION CABLE SOLUTIONS

Indoor and Outdoor Cables for The Process Industry, Petrochemical Industry, Unshielded and Shielded, Armored and Unarmored for Automation, Bus Cable, and Hazardous Areas.



### SIGNAL & CONTROL CABLE SOLUTIONS

Instrumentation, Thermocouple, Bus cables, and Security Cables.



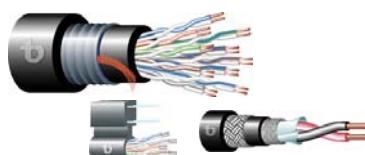
### OPTICAL CABLE SOLUTIONS

Optical Cables for Indoor, Outdoor, Distribution, Breakout, Tactical, and Jumper Applications. RUS Approved.



### COPPER TELEPHONE CABLE SOLUTIONS

Indoor and outdoor, trunk, and drop cables up to 2400 pairs RUS PE 22, 38, 39, 89.



### CATEGORY CABLE DATA CENTER SOLUTIONS

Cat.5e, Cat.6, Cat.6A, Cat.7, Cat.7A, solutions for data centers, patch cords, and hybrid cables. Industrial Ethernet Outdoor Data Solution.



### ELECTRONIC CABLE SOLUTIONS

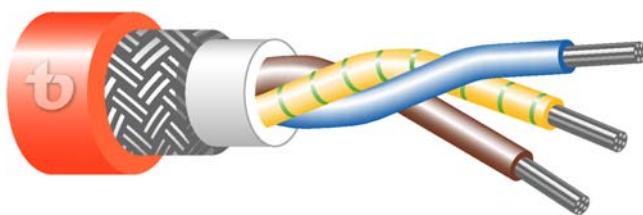
Copper Conductors in Different Gauges for Single to Multi Wires and pairs. Both Unshielded and Shielded.



### MILITARY & SPECIAL CABLE SOLUTIONS

Tactical Cables, Tailor-made Cables with Special Armoring and Sheathing Materials for Medical, Oil & Gas, Military and Special Applications with Different Conductor Sizes within the Cable; Composite or Hybrid Cable Designs.





With over 40 years of cable design and manufacturing experience catering the most discerning of industry professionals, Teldor has the capability of providing a complete portfolio of DNV/ABS approved Instrumentation and control cables for ships, light and high-speed marine craft , oil and gas offshore applications. In the following pages we have put together a small sampling of the hundreds of products available.

International cable design standards: IEC 60092-360, 60092-376, 60332-1-2, 60332-3-22, IEEE 45, 1580

Conductors: Tinned or Bare stranded copper IEC 60228 Class 2 / Class 5

Insulation: FR-LSZH, XL-HFFR, Mica tape IEC 60092-351, 61034-1/2, 60754-1/2

Cable Lay-up: Singles, pairs, triads, quads IEC 60092-350

Screens (individual and/or overall): IEC 60092-350

- Aluminum/polyester tape
- Bare Copper/polyester tape
- Tinned Copper braid
- Bare copper braid

Bedding/Inner jacket: Halogen-Free compound SHF1 or SHF2 per IEC 60092-360, 61034-1/2, 60754-1/2

Armor: IEC 60092-350

- Tinned Copper braid
- Bare copper braid
- Bronze wire braid
- Galvanized steel wire braid
- Galvanized steel wire armor

Outer jacket: IEC 60092- 360, 60092-376, 61034-1/2, 60754-1/2, 60811-2-1, NEK 606

- Halogen-free compound - SHF1
- Halogen-free compound - SHF2
- MUD resistant Halogen-free compound - SHF2

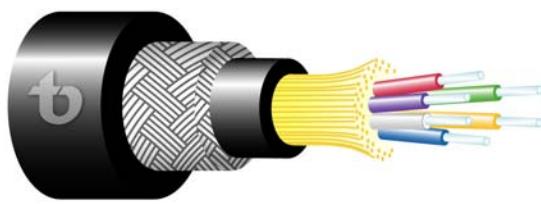
Voltage rating:

- 250V / 90°C
- 600V / 90°C



### Some Examples of Offshore Instrumentation & Control Cables

Teldor P/N	Product Description	O.D. (mm nom.)	Weight (kg/km)
8MG0017xxx	Instrumentation 1x2x0.75 mm <sup>2</sup> OBS SHF2 Fire Resistant	10.0	130
8MG0018xxx	Instrumentation 2x2x0.75 mm <sup>2</sup> S/FTP SHF2	15.5	365
8MG0019xxx	Instrumentation 2x2x0.75 mm <sup>2</sup> OBS SHF2 Fire Resistant	14.5	250
8MG0020xxx	Instrumentation 2x2x0.75 mm <sup>2</sup> OBS SHF2	11.0	175
8MG0022xxx	Instrumentation 4x2x0.75 mm <sup>2</sup> OBS SHF2	13.5	265
8MG0023xxx	Instrumentation 4x2x0.75 mm <sup>2</sup> OBS SHF2 Fire Resistant	16.5	315
8MG0024xxx	Instrumentation 7x2x0.75 mm <sup>2</sup> OBS SHF2	15.0	365
8MG0021xxx	Instrumentation 7x2x0.75 mm <sup>2</sup> S/FTP SHF2	20.0	645
8MG0025xxx	Instrumentation 10x2x0.75 mm <sup>2</sup> OBS SHF2 Fire Resistant	24.0	720
8MG0027xxx	Instrumentation 19x2x0.75 mm <sup>2</sup> OBS SHF2	22.5	820
8MG0031xxx	Instrumentation 12x1.5 mm <sup>2</sup> OBS SHF2	20.5	695
8MG0028xxx	Instrumentation 1x2x1.5 mm <sup>2</sup> OBS SHF2	9.0	110
8MG0029xxx	Instrumentation 1x2x1.5 mm <sup>2</sup> OBS SHF2 Fire Resistant	11.0	150
8MG0030xxx	Instrumentation 1x3x1.5 mm <sup>2</sup> OBS SHF2	14.0	335
8MG0032xxx	Instrumentation 1x3x2.5 mm <sup>2</sup> OBS SHF2	15.0	405
8MG0016101	Instrumentation 6x16 AWG OFS SBA SHF2 Fire Resistant	17.5	505
8MG0015101	Instrumentation 6x16 AWG OFS SWA SHF2 Fire Resistant	18.0	585
8MG0014101	Instrumentation 6x2x16 AWG F/FTP SBA SHF2 Fire Resistant	27.0	945



With over 40 years of cable design and manufacturing experience catering the most discerning of industry professionals, Teldor has the capability of providing a complete portfolio of DNV/ABS approved FiberOptic cables for ships, light and high-speed marine craft , oil and gas offshore applications. In the following pages we have put together a small sampling of the hundreds of products available.

#### International cable design standards:

IEC 60794, 60092-360, 60092-376, 60332-1-2, 60332-3-22

#### Optical Fibers:

IEC 60793-2-10, 60793-2-50, ITU-T G.652D, G.655, G.657

- Multimode 62.5/125 $\mu$ m (OM1)
- Multimode 50/125 $\mu$ m (OM1, OM2)
- LASER optimized Multimode 50/125 $\mu$ m (OM3, OM4)
- Non dispersion shifted Single-mode (Zero Water Peak)
- Dispersion shifted Single-mode

#### Cable Design:

IEC 60794-1-22/23/24

- Single (mono) Loose Tube
- Multi Loose Tube
- Tight Buffer (Distribution or breakout)
- Dielectric or metallic strength members
- Aramid/glass yarns, mica tape as peripheral elements

#### Armor:

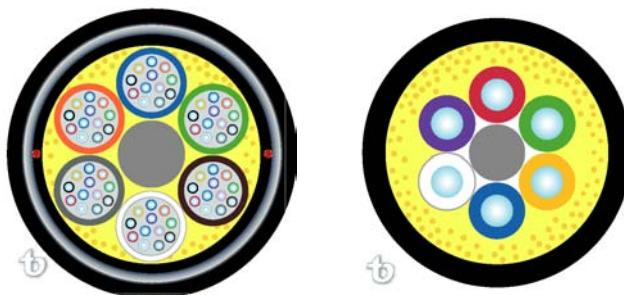
IEC 60092-350

- Galvanized Steel wire
- Bronze wire
- Corrugated Steel tape

#### Outer jacket:

IEC 60092- 360, 60092-376, 61034-1/2, 60754-1/2, 60811-2-1, NEK 606

- Halogen-free compound - SHF1
- Halogen-free compound - SHF2
- MUD resistant Halogen-free compound - SHF2



**Some Examples of Teldor Offshore FiberOptic Cables**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
F50120160B	MG-A-SLA-5-01X12-ZHRH-DD SHF1 BK	12.0	210
F50060148B	MG-SLA-5-01X06-ZH-D#S SHF2 BK	8.2	80
F50040165B	MG-A-SLA-5-01X04-ZHBH-DD SHF2 MUD BK	11.2	220
F40080132B	MG-A-SLA-4-01X08-ZHBH-DD SHF2 BK	11.2	216
F60161614B	MG-A-SDA-6-16HT/H-F-KHBH-D SHF1 BK	15.5	335
F60080844B	MG-A-SDA-6-08HT/H-F-KHWH-DD SHF1 BK	13.0	340
F60080849B	MG-A-SDA-6-08HT/H-F-KHBH-D SHF1 BK	14.2	280
F60121282B	MG-A-SDB-6-12HT/H-E-KHBH-DD SHF2 BK	18.2	485
F60121289B	MG-A-SDA-6-12HT/H-F-KHBH-D SHF1 BK	15.7	341
F60240422B	MG-A-LDC-6-04X06-M-ZHBH-D#S SHF2 MUD BK	16.0	330
F60080209B	MG-A-LDB-6-02X04-D-ZHBH-DD SHF1 BK	13.7	295
F60040207B	MG-A-LDC-6-02X02-M-ZHBH-D#S SHF2 MUD BK	16.0	330
F60080843B	MG-A-SDA-6-08HT/H-F-KHWH-DD SHF2 MUD BK	15.6	425
F60040488B	MG-A-SDA-6-04HT/H-E-KHBH-D SHF1 BK	11.2	195
F50020110O	MG-A-LDB-5-01X02-D-HBH-D XLHF FR SHF2 MUD BK	16.5	400
F902401C4B	MG-SLA-9-01X24-ZHWH-DD#S SHF2 BK	11.4	195
F901201Y9B	MG-SLA-9-01X12-ZHRH-DD SHF1 BK	12.0	210
F50120175B	MG-SLA-5-01X12-ZHRH-DD SHF2 BK	12.0	200
F60040183B	MG-SLA-6-01X04-ZHRH-DD SHF2 BK	11.0	170
F60040186B	MG-A-SLA-6-01X04-ZHBH-DD SHF2 BK	11.2	215
F60040187B	MG-A-SLA-6-01X04-ZHBH-DD SHF2 BK	11.5	190
F90060194B	MG-SLA-9-01X06-JH-D SHF2 BK	7.7	65
F60240129B	MG-A-SLA-6-01X24-ZHBH-DD SHF2 MUD BK	10.9	185
F60040486B	MG-A-SDB-6-04HT/H-F-KHBH-D SHF2 MUD BK	12.0	210

**Some Examples of Teldor Offshore FiberOptic Cables**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
F60040479B	MG-A-SDB-6-04HT/H-D-KHBH-DD SHF2 BK	13.0	260
F60040476B	MG-A-SDA-6-04HT/H-D-KHWH-DD SHF1 BK	11.2	255
F60040475B	MG-A-SDA-6-04HT/H-D-KHWH-DD SHF2 MUD BK	13.8	335
F60040449B	MG-A-SDB-6-04HT/H-E-KHBH-D SHF2 BK	11.4	202
F90121260B	MG-N-MTA-9-12HT-D-KH-D SHF2 BK	9.6	105
F90080848B	MG-A-MTA-9-08HT-E-KHBH-D SHF2 BK	10.2	175
F60161612B	MG-A-MTA-6-16HT-E-KHBH-D SHF1 BK	10.7	210
F60161611B	MG-A-MTA-6-16HT-E-KHBH-D SHF2 MUD BK	11.3	208
F60121287B	MG-A-MTA-6-12HT-E-KHBH-D SHF1 BK	10.2	180
F60080847B	MG-A-MTA-6-08HT-E-KHBH-D SHF1 BK	9.5	168
F50040449B	MG-A-MTA-5-04HT-E-KHBH-D SHF2 BK	9.3	150
F50040462B	MG-A-MTA-5-04HT-E-KHBH-D SHF1 BK	9.3	145
F50080829B	MG-A-MTA-5-08HT-E-KHBH-D SHF2 BK	10.2	175
F50121240B	MG-A-MTA-5-12HT-E-KHBH-D SHF2 BK	10.7	192
F60040480B	MG-A-MTA-6-04HT-E-KHBH-D SHF1 BK	8.5	137
F60040487B	MG-A-MTA-6-04HT-E-KHBH-D SHF2 MUD BK *01	9.3	150
F60240127B	MG-SLA-6-01X24-ZHRH-DD SHF2 MUD BK	11.0	175
F60120183B	MG-A-SLA-6-01X12-ZHBH-DD SHF2 MUD BK	10.9	185
F60120182B	MG-A-SLA-6-01X12-ZHBH-DD SHF2 BK	11.2	216
F60080162B	MG-A-SLA-6-01X08-ZHBH-DD SHF2 MUD BK	10.9	185
F60080161B	MG-A-SLA-6-01X08-ZHBH-DD SHF2 BK	11.2	216
F60080158B	MG-SLA-6-01X08-ZHRH-DD SHF2 MUD BK	11.0	175
F60480424B	MG-LDB-6-04X12-D-JH-D SHF1 BK	10.2	112
F900401F6O	MG-A-LDB-9-01X04-D-HBH-D XLHF FR SHF2 MUD OG	16.5	400
F902402S2B	MG-A-LDB-9-02X12-D-ZHBH-DX SHF2 BK	13.2	270
F9048040CB	MG-LDB-9-04X12-D-ZHWH-DD#S SHF2 BK	14.5	390
F9048040GB	MG-A-LDB-9-04X12-D-ZHBH-DX SHF2 BK	13.2	270
FM0480608B	MG-A-LDB-1-5-03X08+9-03X08-M-ZHBH-D SHF2 MUD BK	13.5	300
F60040182B	MG-A-MSL-6-01X04-ZHBH-DX#S SHF2 BK	12.3	210

# OFFSHORE Cable Solutions

INSTRUMENTATION

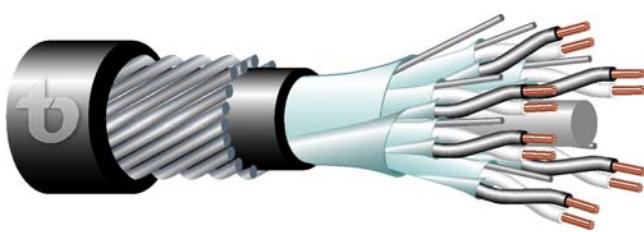
CONTROL

BUS

DATA TELECOMMUNICATIONS

FIBER OPTIC





With over 40 years of cable design and manufacturing experience catering the most discerning of industry professionals, Teldor has the capability of providing a complete portfolio of DNV/ABS approved for offshore applications in FPSOs, FLNGs, platforms, support vessels and all types of marine craft. In the following pages we have put together a small sampling of the hundreds of products available.

## Applicable Standards

- NEK 606 Cables for offshore installations halogen free and/or mud resistant
- IEC 60092-350 Electrical installations in ships - General construction and test methods
- IEC 60092-360 Electrical installations in ships - Insulating and sheathing materials (replaces 60092-351& -359)
- IEC 60092-376 Electrical installations in ships - Cables for control/instrumentation circuits 150/250V (300V)
- IEC 60228 Conductors of insulated cables
- IEC 60331-1 Tests for electric cables under fire conditions - Circuit integrity (O.D.  $\geq$  20 mm)
- IEC 60331-2 Tests for electric cables under fire conditions - Circuit integrity (in metal enclosure)
- IEC 60331-21 Tests for electric cables under fire conditions - Procedures and requirements
- IEC 60332-1/2 Vertical flame propagation on a single insulated wire or cable
- IEC 60332-3-22 Vertical flame spread of vertically mounted bunched wires or cables
- IEC 60754-1/2 Test on gases evolved during combustion of materials from cables
- IEC 61034-1/2 Measurement of smoke density of cables burning under defined conditions

## Approvals by International Classification Societies

DNV-GL

ABS

## Certifications

UL

IQNet

ETL

## Cable Performance Options

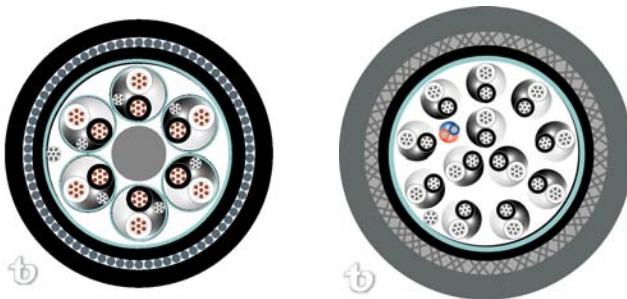
Smoke Density as per IEC 61034-1/2

Flame Spread as per IEC 60322-3-22

Fire Resistance circuit integrity as per IEC 60331-21

Mud resistance SHF2 materials as per NEK 606

Zero Halogen as per IEC 60754-1/2



**Some Examples of Industry-tested Instrumentation Cables for FPSO FLNG & Platforms**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
8MG0377109	Instrumentation 2x1.0 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	11.5	210
8MG0382109	Instrumentation 2x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2	7.0	70
8MG0384109	Instrumentation 2x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	8.5	90
8MG0380109	Instrumentation 3x1.0 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	9.0	235
8MG0387109	Instrumentation 3x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	9.0	110
8MG0391109	Instrumentation 2x2x1.0 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	13.5	210
8MG0404109	Instrumentation 2x2x1.0 mm <sup>2</sup> 250V F/FTP OBS LSZH-SHF2 FIRE RESISTANT	17.5	435
8MG0412109	Instrumentation 2x2x1.0 mm <sup>2</sup> 250V F/FTP LSZH-SHF2	11.0	160
8MG0413109	Instrumentation 6x2x1.0 mm <sup>2</sup> 250V F/FTP LSZH-SHF2	15.0	335
8MG0414109	Instrumentation 8x2x1.0 mm <sup>2</sup> 250V F/FTP LSZH-SHF2	16.5	410
8MG0441109	Instrumentation 8x2x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2	14.5	310
8MG0415109	Instrumentation 12x2x1.0 mm <sup>2</sup> 250V F/FTP LSZH-SHF2	20.0	585
8MG0432109	Instrumentation 12x2x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	23.5	625
8MG0443109	Instrumentation 12x2x1.0 mm <sup>2</sup> 250V OBS LSZH-SHF2	17.5	440
8MG0416109	Instrumentation 16x2x1.0 mm <sup>2</sup> 250V F/FTP LSZH-SHF2	22.5	770
8MG0445109	Instrumentation 16x2x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2	20.0	580
8MG0446109	Instrumentation 24x2x1.0 mm <sup>2</sup> 250V OFS LSZH-SHF2	23.5	830
8MG0393109	Instrumentation 6x3x1.0 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	22.0	605
8MG0397109	Instrumentation 10x3x1.0 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	28.5	900
8MG0401109	Instrumentation 12x3x1.0 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	29.5	1040
8MG0374104	Instrumentation 2x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	12.0	230
8MG0378109	Instrumentation 2x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	12.0	230
8MG0385109	Instrumentation 2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	9.0	105
8MG0376104	Instrumentation 3x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	12.5	260
8MG0381109	Instrumentation 3x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2	12.5	260

**Some Examples of Industry-tested Instrumentation Cables for FPSO FLNG & Platforms**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
8MG0389109	Instrumentation 3x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	9.5	130
8MG0453109	Instrumentation 5x1.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	11.0	180
8MG0454109	Instrumentation 7x1.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	12.0	225
8MG0458109	Instrumentation 12x1.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	16.0	430
8MG0455109	Instrumentation 24x1.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	22.5	720
8MG0475105	Instrumentation 1x2x1.5 mm <sup>2</sup> 250V OFS SHF2 FIRE RESISTANT Thermocouple Extension Type KX	8.0	90
8MG0390109	Instrumentation 2x2x1.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	14.5	250
8MG0411109	Instrumentation 2x2x1.5 mm <sup>2</sup> 250V F/FTP OBS LSZH-SHF2 FIRE RESISTANT	18.5	480
8MG0392109	Instrumentation 6x2x1.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	21.0	555
8MG0427109	Instrumentation 6x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	19.5	470
8MG0447109	Instrumentation 6x2x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	23.5	780
8MG0395109	Instrumentation 8x2x1.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	23.0	645
8MG0437109	Instrumentation 2x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	14.0	235
8MG0406109	Instrumentation 8x2x1.5 mm <sup>2</sup> 250V F/FTP OBS LSZH-SHF2 FIRE RESISTANT	25.0	1035
8MG0430109	Instrumentation 8x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	21.5	560
8MG0398109	Instrumentation 12x2x1.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	28.0	945
8MG0407109	Instrumentation 12x2x1.5 mm <sup>2</sup> 250V F/FTP OBS LSZH-SHF2 FIRE RESISTANT	33.0	1570
8MG0433109	Instrumentation 12x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	25.5	795
8MG0450109	Instrumentation 12x2x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	29.5	1265
8MG0402109	Instrumentation 16x2x1.5 mm <sup>2</sup> 250V F/FTP SHF2 FIRE RESISTANT	32	1210
8MG0409109	Instrumentation 16x2x1.5 mm <sup>2</sup> 250V F/FTP OBS LSZH-SHF2 FIRE RESISTANT	38.0	2010
8MG0435109	Instrumentation 16x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	29.0	1020
8MG0451109	Instrumentation 16x2x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	33.0	1570
8MG0439109	Instrumentation 18x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	29.5	1150
8MG0436109	Instrumentation 24x2x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	35.0	1480
8MG0474105	Instrumentation 24x2x1.5 mm <sup>2</sup> 250V F/FTP SHF2 FIRE RESISTANT Thermocouple Extension Type KX	35.5	1505
8MG0410109	Instrumentation 24x2x1.5 mm <sup>2</sup> 250V F/FTP OBS LSZH-SHF2 FIRE RESISTANT	45.0	2805
8MG0403109	Instrumentation 24x2x1.5 mm <sup>2</sup> 250V F/FTP SHF2 FIRE RESISTANT	40.0	1815

**Some Examples of Industry-tested Instrumentation Cables for FPSO FLNG & Platforms**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
8MG0405109	Instrumentation 6x3x1.5 mm <sup>2</sup> 250V F/FTT OBS LSZH-SHF2 FIRE RESISTANT	28.5	1220
8MG0419109	Instrumentation 6x3x1.5 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	24.0	735
8MG0422104	Instrumentation 6x3x1.5 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	24.0	735
8MG0429109	Instrumentation 6x3x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	23.5	675
8MG0464104	Instrumentation 10x3x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	36.5	1820
8MG0466109	Instrumentation 10x3x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2	26.0	1220
8MG0400109	Instrumentation 12x3x1.5 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	33.0	1295
8MG0408109	Instrumentation 12x3x1.5 mm <sup>2</sup> 250V F/FTT OBS LSZH-SHF2 FIRE RESISTANT	37.5	1995
8MG0423104	Instrumentation 12x3x1.5 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	33.0	1295
8MG0438109	Instrumentation 12x3x1.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	31.5	1155
8MG0465104	Instrumentation 12x3x1.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	37.5	2010
8MG0379109	Instrumentation 2x2.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	13.0	280
8MG0383109	Instrumentation 2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2	9.5	130
8MG0386109	Instrumentation 2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	10.0	135
8MG0456109	Instrumentation 5x2.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	12.5	245
8MG0457109	Instrumentation 7x2.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	13.5	315
8MG0459109	Instrumentation 12x2.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	18.0	525
8MG0460109	Instrumentation 24x2.5 mm <sup>2</sup> 250V LSZH-SHF2 FIRE RESISTANT	26.0	1035
8MG0417109	Instrumentation 2x2x2.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	17.0	355
8MG0425109	Instrumentation 2x2x2.5 mm <sup>2</sup> 600V F/FTP LSZH-SHF2 FIRE RESISTANT	19.0	390
8MG0428109	Instrumentation 6x2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	22.0	645
8MG0440109	Instrumentation 6x2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2	20.0	590
8MG0448109	Instrumentation 6x2x2.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	26.0	1000
8MG0418109	Instrumentation 6x2x2.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	24.0	760
8MG0396109	Instrumentation 8x2x2.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	26.5	915
8MG0431109	Instrumentation 8x2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	24.5	780
8MG0442109	Instrumentation 8x2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2	22.0	715
8MG0449109	Instrumentation 8x2x2.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	28.5	1215
8MG0399109	Instrumentation 12x2x2.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	33.0	1340
8MG0434109	Instrumentation 12x2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2 FIRE RESISTANT	29.0	1105

**Some Examples of Industry-tested Instrumentation Cables for FPSO FLNG & Platforms**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
8MG0444109	Instrumentation 12x2x2.5 mm <sup>2</sup> 250V OFS LSZH-SHF2	26.0	1005
8MG0420109	Instrumentation 16x2x2.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	39.0	1830
8MG0424104	Instrumentation 16x2x2.5 mm <sup>2</sup> 250V F/FTP LSZH-SHF2 FIRE RESISTANT	39.0	1830
8MG0452109	Instrumentation 16x2x2.5 mm <sup>2</sup> 250V OFS OBS LSZH-SHF2 FIRE RESISTANT	39.0	2250
8MG0394109	Instrumentation 6x3x2.5 mm <sup>2</sup> 250V F/FTT LSZH-SHF2 FIRE RESISTANT	28.0	1010
8MG0463109	Instrumentation 4x4.0 mm <sup>2</sup> 0.6/1KV OFS LSZH-SHF2 FIRE RESISTANT	14.0	320
8MG0426109	Instrumentation 2x2x4.0 mm <sup>2</sup> 600V F/FTP LSZH-SHF2 FIRE RESISTANT	21.0	500

**Some Examples of Industry-tested Copper Data Cables for FPSO FLNG & Platforms**

Teldor P/N	Product Description	O.D. (mm)	Weight (kg/km)
9MG0542xxx	Cat. 6 4x2x23/1 AWG U/UTP LSZH-SHF1	7.1	60
9MG0544101	Cat. 6 4x2x23/1 S/FTP LSZH-SHF1	8.0	78
9MG0024101	Cat. 6 4x2x23/1 AWG S/FTP LSZH-SHF2	7.9	70
9MG0025xxx	Cat. 6 4x2x23/1 AWG S/FTP SBA LSZH-SHF2	11.8	225
9MG0557xxx	Cat. 6 4x2x23/1 U/FTP LSZH-SHF1	7.9	68
9375704xxx	Cat. 6 4x2x23/1 XLPE SF/UTP FR-LSZH	8.3	80
9MG0545xxx	Cat. 6 <sub>A</sub> 4x2x23/1 S/FTP LSZH-SHF1	8.0	72
9MG0033xxx	Cat. 6 <sub>A</sub> 4x2x23/1AWG S/FTP LSZH-SHF2	7.9	70
9MG0254xxx	Cat. 6 <sub>A</sub> 4x2x23/1AWG S/FTP LSZH-SHF2-MUD Resistant	11.0	178
9MG0566xxx	Cat. 6 <sub>A</sub> 4x2x23/7 AWG S/FTP SBA LSZH-SHF1	11.8	225
9MG0057xxx	Cat. 6 <sub>A</sub> 4x2x23/1 AWG S/FTP SBA LSZH-SHF2	11.8	225
9MG0556xxx	Cat. 6 <sub>A</sub> 4x2x23/1 U/FTP LSZH-SHF1	7.9	68
9MG0555xxx	Cat. 6 <sub>A</sub> 4x2x26/7 S/FTP LSZH-SHF1	7.2	50
9MG0543xxx	Cat. 7 4x2x23/1 S/FTP LSZH-SHF1	8.0	78
9MG0009xxx	Cat. 7 4x2x23/1 AWG S/FTP LSZH-SHF2	7.9	70
9MG0010xxx	Cat. 7 4x2x23/1 AWG S/FTP SBA LSZH-SHF2	13.8	295
9MG0539xxx	Cat. 7 4x2x23/7 S/FTP LSZH-SHF1	8.6	87
9MG0020xxx	Cat. 7 4x2x23/7 AWG S/FTP LSZH-SHF2	8.5	80
9MG0008xxx	Cat. 7 4x2x26/7 AWG S/FTP SBA LSZH-SHF2	13.5	290
9MG0554xxx	Cat. 7 <sub>A</sub> 4x2x23/1 S/FTP LSZH-SHF1	8.0	78
9MG0016xxx	Cat. 7 <sub>A</sub> 4x2x23/1AWG S/FTP LSZH-SHF2	7.9	70

**Some Examples of Industry-tested BUS and IE Cables for FPSO FLNG & Platforms**

<b>Teldor P/N</b>	<b>Product Description</b>	<b>O.D.(mm)</b>	<b>Weight (kg/km)</b>
90V1S12101	RS-485 120 Ω 1x2x24/7 AWG SF/UTP PVC	4.1	20
7MG0004xxx	RS-422/485 2x2x22/7 AWG SF/UTP SBA LSZH-SHF2-MUD	16.2	380
7MG0005xxx	RS-422/485 4x2x22/7 AWG SF/UTP SBA LSZH-SHF2-MUD	17.7	450
7MG0006xxx	RS-422/485 8x2x22/7 AWG SF/UTP SBA LSZH-SHF2-MUD	18.0	480
7MG0008xxx	ProfiBus DP 2x22/19 AWG SF/UTP LSZH-SHF2	8.4	91
7MG0020xxx	ProfiBus DP 2x22/19 AWG SF/UTP SBA LSZH-SHF1	12.0	250
7MG0028xxx	ProfiBus DP 2x22/19 AWG SF/UTP SBA LSZH-SHF2-MUD	14.1	325
982VT18xxx	DeviceNet Trunk (2x18 AWG +2x15 AWG) S/FTP PVC jacket	12	185

**Some Examples of Industry-tested FiberOptic Cables for FPSO FLNG & Platforms**

<b>Teldor P/N</b>	<b>Product Description</b>	<b>O.D.(mm)</b>	<b>Weight (kg/km)</b>
F90040456B	MG-A-SDB-9-04HT/H-E-KHBH-D	11.4	202
F40040430B	MG-A-SDB-4-04HT/H-E-KHBH-D BK	11.4	205
F60040449B	MG-A-SDB-6-04HT/H-E-KHBH-D SHF2 BK	11.4	202
F60040183B	MG-A-SLA-6-01X04-ZHRH-DD SHF2 BK	11.0	170
F60040168B	MG-A-SLA-6-01X04-ZHRH-DD XLHF BK	11.9	190
F60040177B	MG-A-SLA-6-01X04-ZHRH-DD SHF2 MUD BK	11.0	175
F60040175B	MG-A-SLA-6-01X04-ZHBH-DX#S SHF2 BK	12.8	230
F60040185B	MG-A-SLA-6-01X04-ZHBH-DD#S SHF2 BK	11.4	195
F60240122B	MG-A-SLA-6-01X24-ZHRH-DD XLHF BK	11.9	190
F60040155O	MG-A-LDB-6-01X04-D-ZHBH-DD XLHF OG	13	255
F60080152B	MG-A-LDB-6-01X08-D-ZHBHH-DD#S BK	15.0	330

# OFFSHORE Cable Solutions

INSTRUMENTATION

CONTROL

BUS

DATA TELECOMMUNICATIONS

FIBER OPTIC



### **Warranty Applicable to Products Sold by Teldor Cables & Systems Ltd. ("Teldor")**

1. 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 Ω 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

The full description of the terms, conditions and limitations of the Teldor warranty are agreed on a case-by-case basis.



THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

IQNet and  
THE STANDARDS INSTITUTION OF ISRAEL  
hereby certify that the organization

**TELDOR CABLES & SYSTEMS LTD**

**EIN-DOR, GESHUR, ISRAEL**

*for the following field of activities*

*MANUFACTURE AND DESIGN OF WIRES & CABLES FOR*

*TELECOMMUNICATION, INSTRUMENTATION, ELECTRONICS,*

*DATA COMMUNICATION AND ELECTRICAL PURPOSES.*

*has implemented and maintains a*

***Management System***

*which fulfills the requirements of the following standard/s*

***ISO 9001:2008***

*Issued on :*

*01 . 01 . 2013*

*Date of expiration:*

*31 . 12 . 2015*

*Date of initial approval:*

*16 . 03 . 1993*

*Registration number:*

*IL- 52665*

*Michael Drechsel  
President of IQNet*

*Daniel Goldstein  
Director General, SII*



***IQNet Partners\****: AENOR Spain AFNOR Certification France AIB-Vingotte International Belgium ANCE-SIGE Mexico APCER Portugal CCC Cyprus CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany DS Denmark FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico INNORPI Tunisia Inspecta Certification Finland IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

*IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.*

*\* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)*



[www.teldor.com](http://www.teldor.com)



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