



FIBER OPTIC CABLE DEPLOYMENT



**FIBER OPTIC CABLES,
CLAMPS, BOXES FOR
OUTDOOR & INDOOR
FTTX DEPLOYMENT**

COMPANY PROFILE

JERA LINE is a growing factory, which focus on production of products for fiber optic cable deployment and electrical cable distribution in outdoor, indoor, underground applications.

Our Mission is to satisfy the market's demands through the development of technology in related business sectors to the highest technology level by using innovations and know how.

Our Vision is to achieve the possibility of supplying and manufacturing a comprehensive and reliable complex of products for construction of telecommunication networks and power distribution systems.

• for the fiber optic cable deployment application we produce fiber optic cable, clamps, brackets, joints, boxes and related to passive optical network distribution fiber optic products, applied in FTtx network constructions;

• for the electrical cable distribution application we produce overhead, underground connectors and joints clamp for low, middle, and high voltage ABC cables, applied with voltage from 0.4 KV to 35 KV.

Our company is operating according to ISO 9001:2015, this allow us to sell to over 20 countries and regions such as Europe, CIS, South and North America, Middle East, Africa, and Asia.

Quality of our products is verifying with the collaboration of telecom and electricity utility 3rd party laboratories in order to satisfy the local market regulations and standards of our customers.

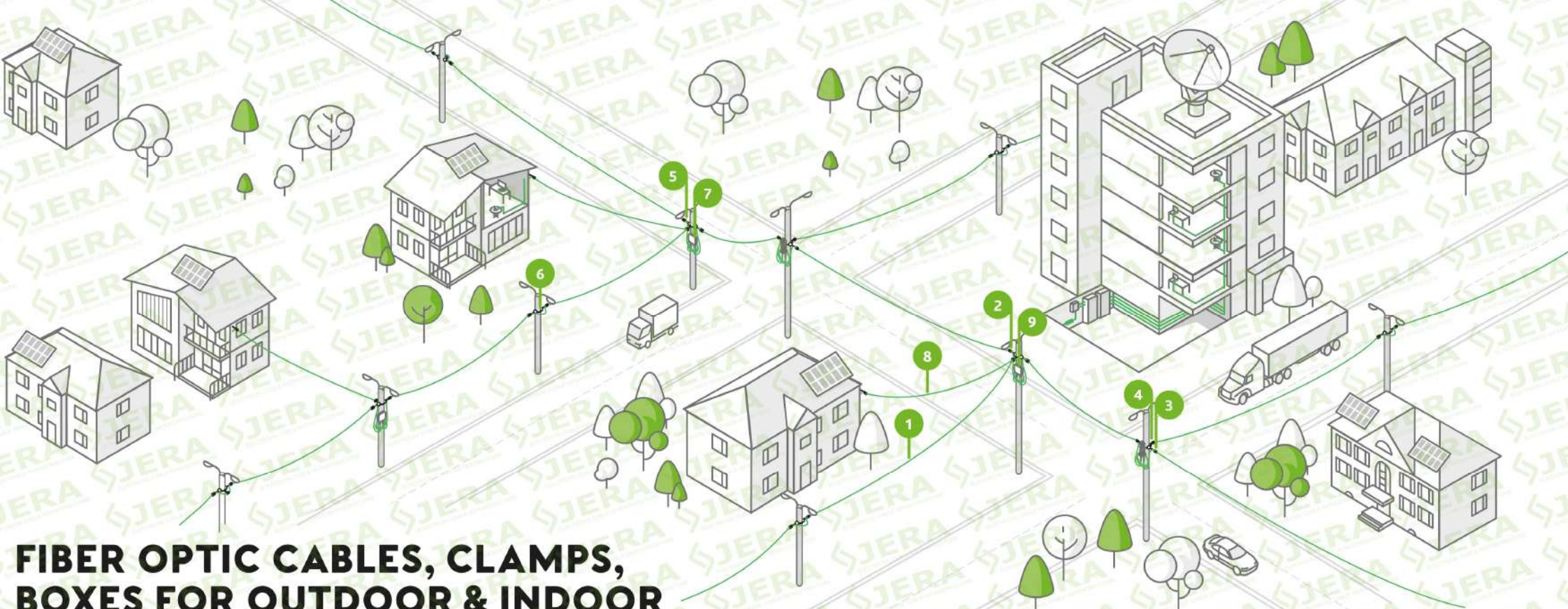
We hope to meet our customer needs with convenient design of products, fair price, confident quality, flexible OEM and prompt R&D service.

Each day we are improving our product range to achieve new challenges of global market.

Welcome to cooperate, our intention is committed to build reliable, long-term business relationships.

CONTENT

| | |
|--|----|
| FIBER OPTIC CABLES, CLAMPS, BOXES FOR OUTDOOR & INDOOR FTTX DEPLOYMENT | 6 |
| DROP CLAMPS & BRACKETS FOR FTTX OUTDOOR (AERIAL) CABLE DEPLOYMENT | 18 |
| ADSS, FIG-8 TYPE CABLE CLAMPS FOR FTTX OUTDOOR (AERIAL) DEPLOYMENT | 22 |
| BRACKETS & HOOKS | 26 |
| PREFORMED WIRE GRIPS FOR ADSS CABLES | 28 |
| STAINLESS STEEL POLE BANDINGS & TOOLS FOR CABLE ATTACHMENT | 30 |
| FIBER OPTIC BOXES & JOINT CLOSURES FOR OUTDOOR FTTX DEPLOYMENT | 34 |
| FIBER OPTIC ADAPTERS, PATCHCORDS, FAST CONNECTORS | 44 |
| FIBER OPTIC PLC SPLITTERS | 46 |
| PULLING TOOLS FOR FIBER OPTIC CABLE INSTALLATION | 48 |



FIBER OPTIC CABLES, CLAMPS, BOXES FOR OUTDOOR & INDOOR FTTX DEPLOYMENT

We have developed a wide range of reliable fiber optical cables, terminal boxes, splice closures, clamps, preformed wire guy-grips and pole's hardware for passive optical networks (PON), used in outdoor (overhead) and indoor fiber optic cable distribution routes. Our products applied in internet network construction, organized by FTTx technology as a part of GPON, in industrial buildings, street houses and data centers.

All the components are applied to accomplish:

- FIBER OPTIC CABLE OUTDOOR FTTX DEPLOYMENT
- FIBER OPTIC CABLE INDOOR FTTX DEPLOYMENT

AA product range, meet the criteria of key regional standards, RoHS, CE.

Quality is verified in factory's laboratory or 3rd party laboratory, by arranging following inspections: insertion losses and return losses test, mechanical strength test, electrical aging test, corro-

sion resistant test, chemical content test, operation experience with temperatures ranging test, climatic aging test etc.

We offer reliable and competitive range of FTTx products of modern and cost effective design and long life period. By implementing an advanced experience and knowledge, we are eager to offer modern and high-qualified products. In addition, we can customize this product range according to your requirements and cable size.

We will be happy to receive inquiries from you.



1
CABLES
page 6



2
DROP CLAMPS
page 18



3
ADSS, F8 CLAMPS
page 22



4
BRACKETS & HOOKS
page 26



5
GUY-GRIPS
page 28



6
S/S BANDINGS
page 30



7
BOXES & JOINTS
page 34



8
PATCHCORDS
page 44



9
SPLITTERS
page 46



10
PULLING TOOLS
page 48

FIBER OPTIC DPOP CABLES FOR FTTX, FLAT-TYPE

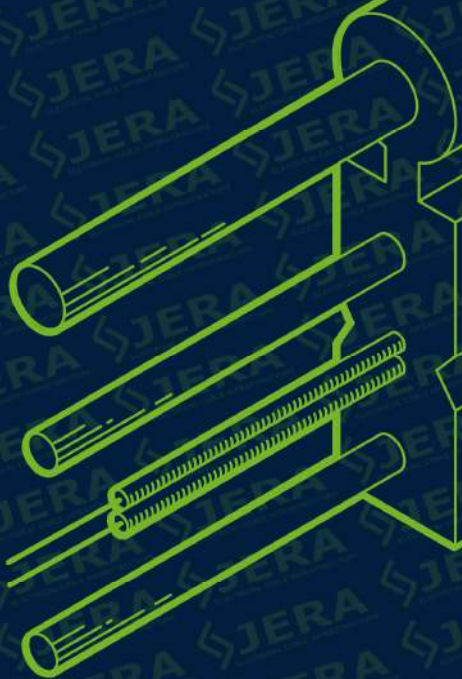
Fiber optic drop cables, flat-type were developed to use in last mile internet connections in FTTX network construction, for outdoor (aerial) and indoor FTTX deployments.

Our fiber optic FTTX cables are made of G652D, G657 A1, A2 fiber core, FRP and steel wire materials, weather and UV resistant LSZH plastic.

Flat-type FTTX cables meet the criteria of key regional standards RoHS, CE.

Replying on area of usage, we produce:

- fiber optical drop cable, flat-figure-8 type of 1, 2, 4 cores, with FRP or steel messengers, reinforced by FRP or steel rods depend on project requirement;
- fiber optic drop cable, flat-type of 1, 2, 4 cores, reinforced by FRP or steel rods.



FIBER OPTIC DROP CABLE FLAT-TYPE. 1, 2, 4 CORES, REINFORCED BY STEEL RODS FOR OUTDOOR (AERIAL) DEPLOYMENT

Cable Description

- STRENGTH MEMBER: STEEL WIRE
- OPTICAL FIBER
- OUTER SHEATH: BLACK OR WHITE LSZH



Applications



Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.



Applied in drain system distribution networks of fiber optics. Blow in a cable into protective plastic pipes.

Features



Perfect for indoor distribution networks of fiber optics



High connecting usability, easy access to the fiber core



Reliability. Reinforced by steel strength member.



High flexibility design



Fire redundant protection



UV radiation protection



Tensile load rating — 600 N



Crushing load of cable — 1kN/10cm



Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | |
|--|--------------------|-----------------|-----------------|
| | 1 fiber | 2 fibers | 4 fibers |
| Strength member material | Steel wire | Steel wire | Steel wire |
| Strength member diameter (mm) | 0.40 | 0.40 | 0.40 |
| Sheath thickness (mm) | ≥0.40 | ≥0.40 | ≥0.40 |
| Cable diameter (mm) | 2.0 × 3.0(±0.1) | 2.0 × 3.0(±0.1) | 2.0 × 3.0(±0.1) |
| Cable weight (kg/km) | 10 | 10.5 | 11.5 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long Term (N) | 600/300 | 600/300 | 600/300 |
| Crush resistance short/long term (N/100mm) | 1000/500 | 1000/500 | 1000/500 |
| | G.657.A1/A2 | G.652.D | |
| Min. bending radius (mm) | 10/25 | 30/60 | |

FIBER OPTIC DROP CABLE FLAT-TYPE. 1, 2, 4 CORES,
REINFORCED BY FRP RODS FOR INDOOR DEPLOYMENT

Cable Description

- STRENGTH MEMBER: FRP ROD
- OPTICAL FIBER
- OUTER SHEATH: BLACK OR WHITE LSZH



Applications

Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.

Applied in drain system distribution networks of fiber optics. Blow in a cable into protective plastic pipes.

Features

- Perfect for indoor distribution networks of fiber optics
- High connecting usability, easy access to the fiber core
- Full dielectric design
- High flexibility design
- Fire redundant protection
- UV radiation protection
- Tensile load rating — 80 N
- Crushing load of cable — 1 kN/10cm
- Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | |
|--|--------------------|-----------------|-----------------|
| | 1 fiber | 2 fibers | 4 fibers |
| Strength member material | FRP | FRP | FRP |
| Strength member diameter (mm) | 0.50 | 0.50 | 0.50 |
| Sheath thickness (mm) | ≥0.40 | ≥0.40 | ≥0.40 |
| Cable diameter (mm) | 2.0 × 3.0(±0.1) | 2.0 × 3.0(±0.1) | 2.0 × 3.0(±0.1) |
| Cable weight (kg/km) | 9.5 | 10.0 | 10.5 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 80/40 | 80/40 | 80/40 |
| Crush resistance short/long term (N/100mm) | 1000/500 | 1000/500 | 1000/500 |
| | G.657.A1/A2 | G.652.D | |
| Min. bending radius (mm) | 10/25 | 30/60 | |

FIBER OPTIC DROP CABLE FLAT, FIGURE-8 TYPE. 1, 2, 4 CORES,
WITH STEEL MESSENGER, REINFORCED BY STEEL RODS FOR OUTDOOR (AERIAL) DEPLOYMENT

Cable Description

- MESSENGER WIRE: STEEL WIRE
- STRENGTH MEMBER: FRP ROD
- OPTICAL FIBER
- OUTER SHEATH: BLACK LSZH



Applications

Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions

Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.

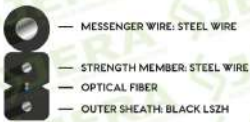
Applied in drain system distribution networks of fiber optics. Blow in a cable into protective plastic pipes.

Features

- Perfect for indoor distribution networks of fiber optics
- High connecting usability, easy access to the fiber core
- Reliability. Reinforced by steel strength member
- High flexibility design
- Fire redundant protection
- UV radiation protection
- Tensile load rating — 2 kN
- Crushing load of cable — 2.2 kN/10cm
- Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | |
|--|--------------------|-----------------|-----------------|
| | 1 fiber | 2 fibers | 4 fibers |
| Self-supporting. Strength member material | Steel wire | Steel wire | Steel wire |
| Self-supporting. Strength member diameter (mm) | 1.0 | 1.0 | 1.0 |
| Strength member material | FRP | FRP | FRP |
| Strength member diameter (mm) | 0.50 | 0.50 | 0.50 |
| Sheath thickness (mm) | ≥0.40 | ≥0.40 | ≥0.40 |
| Cable diameter (mm) | 2.0 × 5.2(±0.1) | 2.0 × 5.2(±0.1) | 2.0 × 5.2(±0.1) |
| Cable weight (kg/km) | 18.5 | 19.0 | 20.0 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 2000/800 | 2000/800 | 2000/800 |
| Crush resistance short/long term (N/100mm) | 2200/1000 | 2200/1000 | 2200/1000 |
| | G.657.A1/A2 | G.652.D | |
| Min. bending radius (rip off the messenger wire) dynamic/static (mm) | 10/25 | 30/60 | |
| Min. bending radius (mm) | 120 | 120 | |

FIBER OPTICAL FLAT-TYPE CABLES FOR FTTX
**FIBER OPTIC DROP CABLE FLAT, FIGURE-8 TYPE. 1, 2, 4 CORES,
WITH STEEL MESSENGER, REINFORCED BY FRP RODS FOR OUTDOOR (AERIAL) DEPLOYMENT**
Cable Description

Applications


Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions.



Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.



Applied in drain system distribution networks of fiber optics. Blow in a cable into protective plastic pipes.

Features


Perfect for indoor distribution networks of fiber optics



High connecting usability, easy access to the fiber core



Reliability Reinforced by steel strength member



High flexibility design



Fire redundant protection



UV radiation protection



Tensile load rating – 2 kN



Crushing load of cable – 2,2 kN/10cm



Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | |
|--|--------------------|-----------------|-----------------|
| | 1 fiber | 2 fibers | 4 fibers |
| Self-supporting, Strength member material | Steel wire | Steel wire | Steel wire |
| Self-supporting, Strength member diameter (mm) | 1.0 | 1.0 | 1.0 |
| Strength member material | Steel wire | Steel wire | Steel wire |
| Strength member diameter (mm) | 0.40 | 0.40 | 0.40 |
| Sheath thickness (mm) | ≥0.40 | ≥0.40 | ≥0.40 |
| Cable diameter (mm) | 2.0 × 5.2(±0.1) | 2.0 × 5.2(±0.1) | 2.0 × 5.2(±0.1) |
| Cable weight (kg/km) | 20.0 | 20.5 | 21.5 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 2000/800 | 2000/800 | 2000/800 |
| Crush resistance short/long term (N/100mm) | 2200/1000 | 2200/1000 | 2200/1000 |
| | G.657.A1/A2 | G.652.D | |
| Min. bending radius (rip off the messenger wire) dynamic/static (mm) | 10/25 | 30/60 | |
| Min. bending radius (mm) | 120 | 120 | |

**FIBER OPTIC DROP CABLE FLAT, FIGURE-8 TYPE. 1, 2, 4 CORES,
WITH FRP MESSENGER, REINFORCED BY FRP RODS FOR OUTDOOR (AERIAL) DEPLOYMENT**
Cable Description

Applications


Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions.



Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.



Applied in drain system distribution networks of fiber optics. Blow in a cable into protective plastic pipes.

Features


Perfect for indoor distribution networks of fiber optics



High connecting usability, easy access to the fiber core



Full dielectric design



High flexibility design



Fire redundant protection



UV radiation protection



Tensile load rating – 1.8 kN



Crushing load of cable – 2,2 kN/10cm



Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | |
|--|--------------------|-----------------|-----------------|
| | 1 fiber | 2 fibers | 4 fibers |
| Self-supporting, Strength member material | FRP | FRP | FRP |
| Self-supporting, Strength member diameter (mm) | 1.0 | 1.0 | 1.0 |
| Strength member material | FRP | FRP | FRP |
| Strength member diameter (mm) | 0.50 | 0.50 | 0.50 |
| Sheath thickness (mm) | ≥0.40 | ≥0.40 | ≥0.40 |
| Cable diameter (mm) | 2.0 × 5.2(±0.1) | 2.0 × 5.2(±0.1) | 2.0 × 5.2(±0.1) |
| Cable weight (kg/km) | 14.5 | 15.0 | 16.0 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 1800/700 | 1800/700 | 1800/700 |
| Crush resistance short/long term (N/100mm) | 2200/1000 | 2200/1000 | 2200/1000 |
| | G.657.A1/A2 | G.652.D | |
| Min. bending radius (rip off the messenger wire) dynamic/static (mm) | 10/25 | 30/60 | |
| Min. bending radius (mm) | 120 | 120 | |

FIBER OPTIC DROP CABLES FOR FTTX, ROUND-TYPE

Fiber optic drop cables round type, other called mini ADSS drop cables, were developed to use in last mile installation route to connect the final users to telecommunication network using GPON and FTTX or FTTH technologies. Applied in outdoor (aerial) and indoor FTTx deployment.

This fiber optic cables applied when small size and high mechanical strengths are required on middle spans of network construction routes, outdoor (aerial), in the ducts, indoor.

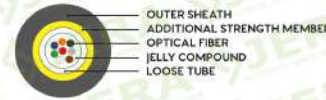
Round drop cables consist of fiber core, reinforced and protected by PBT loose tube and aramid yarns that are located at the whole diameter of cable. fiber cores placed inside tube all the structure filled by jelly and jacketed by LSZH or TPU sheath. Fiber core can be made of G652D or G657 A1, A2, B3 grade of fiber.

Round drop cables meet the criteria of key regional standards RoHS, CE.



FIBER OPTIC DROP CABLE, ROUND-TYPE. 1, 2, 4 CORES REINFORCED BY GLASS YARNS AND TPU FOR OUTDOOR (AERIAL) DEPLOYMENT

Cable Description



Applications



Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions.



Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.

Features



Perfect for indoor distribution networks of fiber optics



High connecting usability, easy access to the fiber core



Full dielectric design



High flexibility design



Fire redundant protection



UV radiation protection



Tensile load rating – 1 kN



Crushing load of cable – 1 kN/10cm



Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | |
|--|----------------|----------------|
| | 1-6 fibers | 8-12 fibers |
| Loose tube diameter | 1.2 (±0.06) mm | 1.4 (±0.06) mm |
| Loose tube material | PBT | PBT |
| Loose tube color | Natural | Natural |
| Additional strength member material | Aramid yarn | Aramid yarn |
| Outer sheath material | LSZH | LSZH |
| Outer sheath color | Black | Black |
| Cable diameter (mm) | 3.0 | 3.4 |
| Cable weight (kg/km) | 8.0 | 10.0 |
| Operating temperature range (°C) | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 1000/400 | 1000/400 |
| Crush resistance short/long term (N/100mm) | 1000/300 | 1000/300 |
| Min. bending radius dynamic/static | 10D/20D | 10D/20D |

FIBER OPTICAL ROUND-TYPE CABLES FOR FTTX
FIBER OPTIC DROP CABLE, ROUND-TYPE, 1, 2, 4 CORES

REINFORCED BY GLASS YARNS, PBT JELLY TUBE FOR OUTDOOR (AERIAL) DEPLOYMENT

Cable Description

Applications


Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions.



Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.

Features


Perfect for indoor distribution networks of fiber optics



High connecting usability, easy access to the fiber core



Full dielectric design



High flexibility design



Fire redundant protection



UV radiation protection



Tensile load rating – 1.4 kN



Crushing load of cable – 5 kN/10cm



Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) |
|--|----------------|
| | 1-12 fibers |
| Loose tube diameter | 1.8 (±0.02) mm |
| Loose tube material | PBT |
| Loose tube color | Natural |
| Additional strength member material | Glass yarn |
| Outer sheath material | HDPE |
| Outer sheath color | Black |
| Cable diameter (mm) | 5.0±0.2 |
| Cable weight (kg/km) | Aprox. 35 |
| Operating temperature range (°C) | -50~+70 |
| Tensile strength short/long term (N) | 1400/700 |
| Crush resistance short/long term (N/100mm) | 5000/2500 |
| Min. bending radius dynamic/static | 10D/20D |

FIBER OPTIC DROP CABLE, ROUND-TYPE, 1-12 CORES

REINFORCED BY GLASS YARNS, PBT JELLY TUBE FOR OUTDOOR (AERIAL) DEPLOYMENT

Cable Description

Applications


Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions.



Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.

Features


Perfect for indoor distribution networks of fiber optics



High connecting usability, easy access to the fiber core



Full dielectric design



High flexibility design



Fire redundant protection



UV radiation protection



Tensile load rating – 1 kN



Crushing load of cable – 1 kN/10cm



Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | |
|--|---|---------------|---------------|
| | 1 fibers | 2 fibers | 4 fibers |
| Tube diameter | Tight Buffer Micro tub 0.85 (±0.5) mm | 1.2 (±0.1) mm | 1.6 (±0.1) mm |
| Tube material | Tight Buffer Micro tub LSZH | LSZH | LSZH |
| Tube color | Tight Buffer Micro tub Blue | White | White |
| Additional strength member material | Aramid yarn | Aramid yarn | Aramid yarn |
| Outer sheath material | PU / LSZH | PU / LSZH | PU / LSZH |
| Outer sheath color | Black | Black | Black |
| Cable diameter (mm) | 3.0 | 3.0 | 3.2 |
| Cable weight (kg/km) | 8.0 | 8.2 | 9.0 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 1000/500 | 1000/500 | 1000/500 |
| Crush resistance short/long term (N/100mm) | 1000/300 | 1000/300 | 1000/300 |
| Min. bending radius dynamic/static | 10D/20D | 10D/20D | 10D/20D |

FIBER OPTIC DISTRIBUTION CABLES FOR FTTX

Fiber optic distribution cables were developed to use in indoor for end user installations, in buildings, factories, and different constructions. To connect the final users to telecommunication network using GPON and FTTX or FTTH technologies. Applied in Indoor FTTX.

This fiber optic cable are easy in cable preparation and allow taking out one fiber once it needed, separately.

Distribution cable consist of fiber core, covered by PVC, and reinforced and protected by aramid yarns that are located at the whole diameter of cable, fiber cores placed inside tube all the and jacketed by LSZH sheath. Fiber core can be made of G652D or G657 A1, A2, B3 grade of fiber.

Distribution cables meet the criteria of key regional standards RoHS, CE.



FIBER OPTIC DISTRIBUTION CABLE, ROUND-TYPE. 1-24 CORES REINFORCED BY GLASS YARNS, FOR INDOOR DEPLOYMENT

Cable Description



Applications

Applied outdoor, for installation on the telecommunication supports, between the buildings and industrial constructions.

Applied indoor, for cable tray distribution networks of fiber optics. It is allowed to lay cable on the outdoor facade of a building.

Applied in drain system distribution networks of fiber optics. Blow in a cable into protective plastic pipes.

Features

- Perfect for indoor distribution networks of fiber optics
- High connecting usability, easy access to the fiber core
- Full dielectric design
- High flexibility design
- Fire redundant protection
- UV radiation protection
- Tensile load rating – 0,8 kN
- Crushing load of cable – 1kN/10cm
- Minimum dimension and weight of drop cable

Technical Data

| Item | Value (N) | | | |
|---|-------------|-------------|-------------|-------------|
| | 2 fibers | 4 fibers | 8 fibers | 12 fibers |
| Additional strength member material | Aramid yarn | Aramid yarn | Aramid yarn | Aramid yarn |
| Outer sheath material | LSZH | LSZH | LSZH | LSZH |
| Outer sheath color | Black | Black | Black | Black |
| Cable diameter (mm) | 4.5 | 5.0 | 6.1 | 6.8 |
| Cable weight (kg/km) | 22.0 | 29.5 | 33.0 | 41.1 |
| Operating temperature range (°C) | -50~+70 | -50~+70 | -50~+70 | -50~+70 |
| Tensile strength short/long term (N) | 800/400 | 800/400 | 800/400 | 800/400 |
| Crush resistance short/long term (N/100mm) | 1000/300 | 1000/300 | 1000/300 | 1000/300 |
| Min. bending radius dynamic/static | 10D/20D | 10D/20D | 10D/20D | 10D/20D |

DROP CLAMPS & BRACKETS FOR FTTX OUTDOOR (AERIAL) CABLE DEPLOYMENT



FTTX drop wire clamps and brackets were designed to anchor or suspend the drop wire, FTTX, FTTH flat or round cables on dead-end or intermediate routes during last mile line network installation.

Outdoor drop cable clamps attached to the building, strand or poles by special anchoring bracket, drive hooks, pole brackets, SS hooks and various drops attachments and different angles.

Special drop wire clamp's design allows to implement the securely "dead-end" without risk of cable loss or damage under high tension loads. The special

clamping surface of anchoring clamp does not cut the cable jackets.

Drop wire clamps are made of stainless steel materials, aluminum, thermo-plastic. That insures a high corrosion resistance and guarantee the long period of usage.

All the cable assemblies passed the tensile tests, operation experience with temperatures ranging test, temperature cycling test, aging test, corrosion resistance test etc

BRACKETS FOR DROP CABLE CLAMPS, OUTDOOR (AERIAL) CABLE DEPLOYMENT

Product information:

Aerial drop wire clamps attached to the building, strand or poles by special anchoring bracket, drive hooks, pole brackets, SS hooks and various drops attachments.

Brackets can be easily attached to the building, strand or poles with special screws, bolts or stainless steel band with the buckles. Materials, as well as coating can be adjusted according to you needs.

Technical specification:

| Product code | | MBL, kN | Materials |
|--------------|---|---------|------------------|
| YK |  | 1.5 | Galvanized steel |
| YK-02 |  | 1 | Galvanized steel |
| YK-03 |  | 1 | Galvanized steel |
| YK-04 |  | 1.5 | Galvanized steel |
| YK-05 |  | 0.5 | Galvanized steel |
| AH |  | 2 | Galvanized steel |
| DWR-01 |  | - | Galvanized steel |


DROP CLAMPS FOR FTTX OUTDOOR (AERIAL) CABLE DEPLOYMENT
Product information:

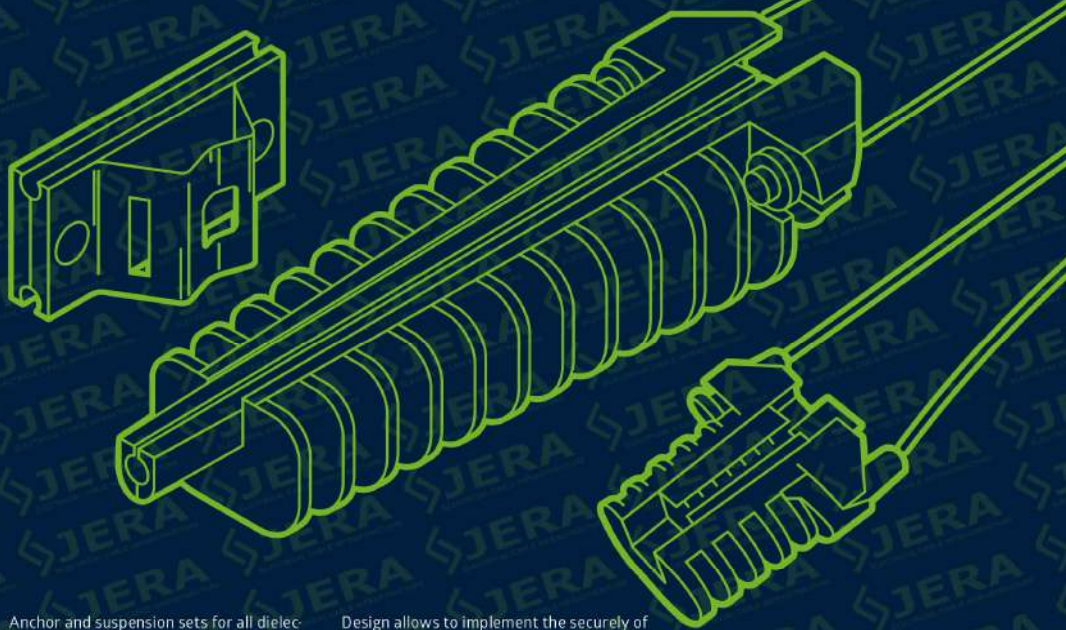
Drop clamps for FTTx cables applied on flat and round cables of different sizes. Tension strength achieved by wedges and conical body of clamp or by excentral layout of cable in the clamp or wedges. Open or closed wire bails provide an easier installation. Tension strength achieved. Radius of excentrals is enough for the optical signal to work properly, without losses.

Technical specification:

| Product code | Max cable size (h × w), mm | MBL, kN | Materials |
|------------------|--|---------|--|
| D3 |  4×5 | 0.5 | UV resistant plastic |
| ODWAC-P |  4×8 | 0.5 | UV resistant plastic |
| ODWAC-HY |  4×8 | 1 | Stainless steel, UV resistant plastic |
| ODWAC-15 |  5×12 | 0.7 | Stainless steel |
| ODWAC-22 |  6×13 | 1.2 | Stainless steel |
| ODWAC-22P |  6×13 | 1 | Stainless steel, UV resistant plastic |
| ODWAC-L |  6×13 | 1 | Aluminium body |
| ODWAC-22S |  6×13 | 0.5 | Stainless steel |
| ODWAC-26 |  6×16 | 2 | Stainless steel |
| PA-08-F |  2.6×10 | 3 | Aluminium, stainless steel, UV resistant plastic |

| Product code | Cable size, mm | MBL, kN | Materials |
|----------------|---|---------|--|
| FISH-1 |  $\varnothing 2-3$, 2×3 | 0.5 | UV resistant plastic, stainless steel |
| FISH-3 |  $\varnothing 2-5$, 2×3 | 0.5 | UV resistant plastic, stainless steel |
| FISH-2 |  $\varnothing 2-5$, 2×3 | 1 | UV resistant plastic |
| ACC |  $\varnothing 2-6$ | 1 | UV resistant plastic |
| H15 |  $\varnothing 2-4$, $2 \times (5-8)$ | 0.5 | UV resistant plastic, galvanized steel |
| D2 |  $\varnothing 2-5$, $2 \times (3-5)$ | 0.5 | UV resistant plastic, galvanized steel |
| D6 |  $\varnothing 4-8$ | 0.5 | UV resistant plastic |
| DC-35 |  $\varnothing 2-5$, $2 \times (3-5)$ | 0.1 | UV resistant plastic |
| S-TYPE |  $\varnothing 0.4-1.5$ | 1 | UV resistant plastic, stainless steel |
| SO-TYPE |  $\varnothing 0.4-1.5$ | 0.5 | UV resistant plastic, stainless steel |
| SS-TYPE |  $\varnothing 0.4-1.5$ | 2 | UV resistant plastic, stainless steel |
| DH-01 |  $\varnothing 2-5$ | 1 | Galvanized steel, aluminium |

ADSS, FIG-8 TYPE CABLE CLAMPS FOR FTTX OUTDOOR (AERIAL) DEPLOYMENT



Anchor and suspension sets for all dielectric self-supporting cables (ADSS) were developed to tension and suspend an aerial round fiber optic cable of different diameters. Clamps applied at central loop routes up to 100 meters and last mile installation routes in FTTX, GPON network construction.

Anchor and suspension sets for all figure-8 type cables were developed to tension and suspend an aerial round fiber optic cable of different diameters. The central messenger of cable can be made of steel or FRP materials. Clamps applied at central loop routes up to 100 meters and last mile installation routes in FTTX, GPON network construction.

Design allows to implement the security of cable without risk of cable loss or damage of insulation under sufficient mechanical loads.

Anchor and suspension clamps for ADSS cables are made of aluminium, stainless steel, high strength plastic materials. That insures a high corrosion resistance and guarantee the long period of usage.

All the assemblies passed the tensile tests, operation experience with temperatures test, temperature cycling test, aging test, corrosion resistance test etc.

ANCHOR AND SUSPENSION CLAMPS FOR ADSS CABLES

Product information:

ADSS anchor clamps are enough to keep the aerial bundled cables in tight strength position, and appropriate mechanical resistance archived by conical body and wedges, which does not allow the cable to slip from the ADSS cable accessory. The ADSS cable route may be dead-end, double dead-ending or double anchoring.

Technical specification:

| Product code | Cable size, mm | MBL, kN | Materials |
|--------------|----------------|---------|--|
| PA-500 | Ø 4 - 8 | 3 | UV resistant plastic, stainless steel, aluminium |
| PA-3000 | Ø 8 - 12 | | |
| PA-3001 | Ø 12 - 16 | 8 | |
| PA-3002 | Ø 16 - 20 | | |
| PA-1000.2 | Ø 7 - 11 | 8 | |

Product information:

Suspension or support clamps for all dielectric self-supporting cable (ADSS) used for aerial round optical fiber cable. These optical fiber cable accessories can be installed on short spans at intermediate poles, ADSS suspension clamp are very easy in installation of optical fiber line and appropriate mechanical resistance.

Can be archived by tightening nut until needed strength will be reach. Or self-adjusting under cable weight. Neoprene insert or strap do not allow the optical cable to slip from the suspension fitting. The ADSS cable may be different sizes, but fiber optical cable route should be straight with angles up to 25.

Technical specification:

| Product code | Cable size, mm | MBL, kN | Materials |
|--------------|----------------|---------|--|
| D8 | Ø 8 - 12 | 1.5 | Galvanized steel, UV resistant plastic |
| D12 | Ø 13 - 16 | 1.5 | |
| HC 5-8 | Ø 5 - 8 | 4 | Galvanized steel, UV resistant plastic |
| HC 8-12 | Ø 8 - 12 | 4 | |
| HC 10-15 | Ø 10 - 15 | 4 | |
| HC 15-20 | Ø 15 - 20 | 4 | |
| PS-619 | Ø 6-19 | 3 | |



ANCHOR AND SUSPENSION CLAMPS FOR FIGURE-8 TYPE CABLES

Product information:

Anchor clamps designed to anchor figure-8 fiber optic cable of different diameters and messenger's types. All the clamps are self-adjusting. Needed mechanical strength and clamp of cable achieved by wedges and conical body of clamp. Usually for FRP, kevlar messenger it is used plastic wedges and body of clamp, whereas for metal messenger we use zink teeth and aluminum body material.

Generally, optical cable with steel messenger require higher mechanical load, and this completely assured by high strength aluminium materials that applied in anchor clamps. Our wedge anchor clamps does not cut the cable jackets and guarantee the long period of usage.

Technical specification:

| Product code | Messenger's material | Diameter of wire over the insulation | MBL, kN | Materials |
|--------------|----------------------|--------------------------------------|---------|--|
| PA-37 | FRP | ∅ 3 - 7 | 2.5 | Stainless steel, UV resistant plastic, aluminium |
| PA-69 | | ∅ 6 - 9 | | |
| PA-610 | | ∅ 6 - 10 | | |
| PA-05 | Steel | ∅ 3 - 5 | 2 | Stainless steel, UV resistant plastic, aluminium, zink |
| PA-06 | Steel | ∅ 3 - 6 | 3 | Stainless steel, UV resistant plastic, aluminium, zink |
| PA-07 | | ∅ 3 - 7 | 5 | |
| PA-08 | | ∅ 3 - 7 | 2.5 | |
| PA-07-520 | Steel | ∅ 3 - 5 | 5 | Stainless steel, UV resistant plastic, aluminium, zink |
| | | ∅ 6 - 8 | 7 | |
| | | ∅ 3 - 5 | | |
| | | ∅ 6 - 8 | | |

Product information:

Suspension clamps designed to suspense figure-8 fiber optic cable of different diameters and messenger's types, on the short spans. Clamps are universal to be applied on steel, FRP, kevlar, AAC messenger. Fiber optic cable route can be straight or turning with angles up to 25. Our clamps does not cut the cable jackets and guarantee the long period of usage.

Following optical fiber suspension accessories are made of UV resistant plastic, galvanized steel plates and hardware. This allows very easy in installation of optical fiber cable and attached to pole (concrete, wooden, metal) with suspension hook or stainless steel strap.

Technical specification:

| Product code | Diameter of wire over the insulation | MBL, kN | Materials |
|--------------|--------------------------------------|---------|--|
| SSA-1 | ∅ 4 - 5 / 5 - 9 | 8 | Galvanized steel, UV resistant plastic |
| CS | ∅ 4 - 5 / 5 - 9 | 8 | Galvanized steel, UV resistant plastic |
| ZP 8-2 | ∅ 4 - 8 | 2 | Galvanized steel, aluminium |

BRACKETS & HOOKS



The suspension and tension brackets were designed to anchor or suspend the ADSS, OFNR, figure-8, cable dead-end tension or suspension clamps. In addition, used for fiber optical closures (FOC) as storage for cable slacks, which appear during the construction of telecommunication network in overhead lines with ADSS, FTTH, drop wire cables. We provide our customers by anchor and suspension assemblies, which have been tested with dead-ending of flat and round cables applied on dead-end, double dead-ending routes and different angles. Brackets can be

easily attached to the building, strand or poles with special screws, bolts or stainless steel band with the buckles. Brackets and hooks are made of steel materials, aluminum, stainless steel materials, what guarantee high corrosion resistance and long period of usage.

Technical specification:

| Product code | | MBL, kN | Materials |
|--------------|---|--|--------------------------|
| UPB |  | F1 - 5, F2 - 3,5, F3 - 9, F4 - 2, F5 - 5 | Aluminium |
| PS-1500 |  | 12 | Aluminium |
| PS-500 |  | 5 | Aluminium |
| Console 32 |  | 15 | Hot dip galvanized steel |
| YPMK |  | 7 | Galvanized steel |
| B-16-300-140 |  | 10 | Galvanized steel |
| PS-7 |  | 1 | Galvanized steel |
| YKP-01 |  | 4 | Galvanized steel |
| YKN |  | 15 | Galvanized steel |
| KR-16 |  | 18 | Hot dip galvanized steel |

PREFORMED WIRE GRIPS FOR ADSS CABLES

Prefomed wire grips were developed to use in overhead telecommunication networks to grip ADSS fiber optic cables. The solution is more cost efficient than traditional wedge-type clamps, because of low materials-output ratio.

Product range of preformed line products includes: dead-end guy grips and suspension grips based on hot dip galvanized steel wire materials, which improve the long life period of product. Unique, one-piece dead-end is easy in installation and free from bolts or high-stress holding devices.

Prefomed wire clamps have been tested with the collaboration of telecommunication companies in order to satisfy the local requirements and national standards of our customers.

In spite of variety of applicable cable sizes, we are capable to develop needed size preformed wire clamp in short time and w/o extra costs.



DEAD-END GUY GRIPS, JS



Product information:

Performed wire dead-end guy grip, JS were developed to grip the ADSS fiber optical cable while construction of internet network lines on wood poles or concrete towers, as analog of classical wedge tension clamps.

ADSS performed wire guy grip, JS were made of hot dip galvanized steel, ASTM A475 standard of wire rod.

ADSS distribution dead-ends guy grip do not require any tool for installation and can be mounted on fiber optic cable, directly. Overhead ADSS dead-end JS type do not require and protective rods or side splices. It can be installed straight on the fiber cable jacket. However, when

the tension strength is high, it should be applied helical ADSS grip with splice protector in order to protect fiber core from damaging during tensioning. Opposite to it, it can be applied ADSS preformed wire grip without protector, when the tension is under 9 kN, with thimble or without it.

The configuration of ADSS performed clamp is calculated in order to minimize the insertion losses of light signal. In addition, our company has researched plenty of varieties of helical tension grips and we are able to match our wire formed dead-ends to your ADSS cable size, according to its working load and outer diameter.

SUSPENSION GRIPS, JS-X



Product information:

Prefomed wire suspension grips JS-X were developed to secure cable intermediate pole on the central loop routes fiber optical cable line.

Wire formed grips are made of galvanized steel materials. Additionally equipped with round-type thimble, that provide superior holding without destruction of wire after years of usage.

Installation of grip do not require any tool and can be mounted on fiber optic cable, directly. Overhead ADSS grips do

not require and protective rods or side splices, it can be installed straight on the fiber cable jacket. However, when the tension strength is high, it should be applied helical ADSS grip with splice protector in order to protect fiber core from damaging during tensioning. Opposite to it, it can be applied ADSS performed wire grip without protector, when the tension is under 9 kN, with thimble or without it.

Jera is capable to develop performed wire suspension grips according to your cable specification and distance between poles.

Technical specification:

| Product code | Thimble, may be applied on tension load | Working load of cable (breaking load), kN | ADSS cable size, mm | Color code | Wire configuration | Length, mm | Weight, kg | | | |
|--------------|---|---|---------------------|------------|--|------------|------------|--|--|--|
| JS | Without | 1 (2) | 5.0/5.6 | — red | Specified in accordance to cable working load. | | | | | |
| | US - 1 (1 - 7 kN) | 2 (3.5) | 5.7/6.5 | — yellow | | | | | | |
| | UT - 05 (1 - 7 kN) | | 6.6/7.4 | — black | | | | | | |
| | UT - 1 (5 - 10 kN) | 3 (5) | 7.5/8.4 | — orange | | | | | | |
| | UT - 3 (12 - 15 kN) | 4 (7) | 8.5/9.4 | — brown | | | | | | |
| | | 5 (9) | 9.5/10.5 | — white | | | | | | |
| 6 (10) | | 10.6/11.6 | — blue | | | | | | | |
| JS-X | Without | 5 (9) | 11.7/12.8 | — green | | | | | | |
| | UR - 1 (1 - 7 kN) | 6 (10) | 12.9/14.1 | — red | | | | | | |
| | UR - 2 (5 - 10 kN) | 7 (12) | 14.2/15.6 | — yellow | | | | | | |
| | UR - 3 (12 - 15 kN) | 8 (14) | 15.7/17.3 | — black | | | | | | |
| | | 9 (15) | 17.4/19.1 | — orange | | | | | | |
| | | 19.2/20.9 | — brown | | | | | | | |
| | | 21/22.8 | — white | | | | | | | |

STAINLESS STEEL POLE BANDINGS & TOOLS FOR CABLE ATTACHMENT



Stainless steel banding or strapping products and accessories were developed to bundle items together, to attach industrial fittings to the poles. Banding system is a set of fastening materials and special fixing devices made of stainless steel or steel, covered with special materials, gas, oil and mining industries, fixing signs to power line.

Basic package of banding accessories to fixate cable accessories to pole includes:

- stainless steel band;
- stainless steel buckles (simple and push locking system);
- stainless steel download cable buckles;
- tools for tightening band;
- stainless steel tie, screw locking system.

Stainless steel band accessories meet the criteria of key regional standards such as CENELEC, EN-50483-4, NF C 33-020, ROSSETI (CIS market).

Due to advantages as extended service life, extremely easy and convenient in use, securely and tightly attaching, strapping accessories can be applied very widely: in fastening solutions, in construction of overhead distribution lines: overhead transmission lines, telecommunication lines, construction of outdoor passive optic networks, street or traffic signs and video cameras, tubes and other pole hardware, marine and railway transportation.



STAINLESS STEEL BANDS

Product information:

Stainless steel band applied with suspension clamps, anchor clamps, and hooks, on dead-end and intermediate routes, of main or end use electrical connections.

Stainless steel bands are made of stainless steel of different grades: 201, 202, 304, 316, 409. Jera's band have superior elongation value, compared to other manufacturers. For easy identification of steel grade, we products the plastic boxes form different colors.

Steel strapping is the strongest way of securing with heavy loads, when fixing items with hold the high tensile strength.

Jera's banding products are available in different sizes to assist your strapping needs. Stainless steel bands can guarantee extended service life and attaching under significant mechanical loads.

Installation process:

1. Cut the stainless steel strap with needed length by strap banding tool.
2. Put on it the stainless steel buckle.
3. Fix the strap by moving the strap banding tool wheel (or ratchet), then cut the band.

Technical specification:

| Material grade, SUS | 201 | 202 | 304 | 316 | 409 |
|---------------------|------------------|------------------|------------------|------------------|------------------|
| Width | 1/4" - 6.4 mm | 3/8" - 9.5 mm | 1/2" - 12.7 mm | 5/8" - 16.0 mm | 3/4" - 19.0 mm |
| Thickness | 0.015" - 0.40 mm | 0.020" - 0.50 mm | 0.025" - 0.64 mm | 0.028" - 0.70 mm | 0.030" - 0.75 mm |
| Length for roll, m | 30 or 50 | 30 or 50 | 30 or 50 | 30 or 50 | 30 or 50 |
| Colour of dispenser | Red | Green | Blue | Purple | Yellow |



RATCHET TOOL MBT-004

Product information:

Ratchet type tool MBT-004 is developed for tensioning the stainless steel band and mounting the fittings on wooden, concrete or metal poles. The tool is equipped with special blade for easily cutting the stainless steel band. Ratchet tool MBT-004 is an easy way of binding stainless steel banding around different rack/ pole elements. It keeps the tension tight on the strapping bands as they fasten the components together. The operations of cutting, tension, banding can be done with spin tension handle, spring-loaded gripper and cutter. To complete the installation there is only one tool needed.

WHEEL TOOL MBT-003

Product information:

Wheel type tool MBT-003 is developed for tensioning the stainless steel band and mounting the fittings on wooden, concrete or metal poles. The tool is equipped with special blade for easily cutting the stainless steel band.

The strapping tool MBT-003 has superior rust corrosion resistance and trouble proofed design, which strictly clamped the band and buckles. The cut knife with holds plenty of cutting cycles and guarantee long service period of tool. To complete the installation there is only one tool needed.

Technical specification:

| Product code | MBT-004 | MBT-003 |
|----------------|---------|---------|
| Max band width | < 25 | < 20 |
| Grades | < 1.5 | < 1.2 |


STAINLESS STEEL BUCKLES, L-TYPE
Product information:

Stainless steel buckles, other called stainless steel clips, used to attach pole fittings, anchor clamps, suspension fittings and other fittings or accessories together with stainless steel band on dead-end and intermediate routes, of main or end use electrical connections.

Stainless steel buckles l-type are made of different sizes depend on band strapping size to assist your strapping needs of securing with heavy loads. Stainless steel buckles have max size for band – 20 mm and appropriate for insertion of three coils of band strapping.

Stainless steel buckles l-type are made of stainless steel of different grades: 201, 202, 304, 316.

The design of buckles exclude purchase bolts, nuts and washers, hex keys of different sizes.

Technical specification:

| Product code | HC-10-L | HC-13-L | HC-16-L | HC-20-L |
|----------------|--------------------|--------------------|--------------------|--------------------|
| Max band width | 3/8" – 10 mm | 1/2" – 12.7 mm | 5/8" – 16.0 mm | 3/4" – 20.0 mm |
| Grades | 201, 202, 304, 316 | 201, 202, 304, 316 | 201, 202, 304, 316 | 201, 202, 304, 316 |


STAINLESS STEEL BUCKLES, LX AND LC
Product information:

Stainless steel buckles, other called stainless steel clips, used to attach pole fittings, anchor clamps, suspension fittings and other fittings or accessories together with stainless steel band on dead-end and intermediate routes, of main or end use electrical connections.

Stainless steel buckles LC and LX are made as analog to reinforced buckles, to withstand sufficient mechanical loads, compared to simple l-type. Stainless steel buckles have max size for band – 20 mm and appropriate for insertion of three coils of band strapping.

Stainless steel buckles LC and LX are made of stainless steel of different grades: 201, 202, 304, 316.

The design of buckles exclude purchase bolts, nuts and washers, hex keys of different sizes.

Technical specification:

| Product code | HC-20-LC | HC-20-LX |
|----------------|--------------------|--------------------|
| Max band width | 3/4" – 20.0 mm | 3/4" – 20.0 mm |
| Grades | 201, 202, 304, 316 | 201, 202, 304, 316 |


STAINLESS STEEL CABLE DOWN LEAD BUCKLE
Product information:

Cable down lead buckle used to attach the fiber optic cable or other kinds of cable to pole on vertical routes. Applied together with stainless steel band. Stainless steel band for this solution come with a safety cut edges for safe maintenance. The design and the materials provide the outstanding quality, which allows them to be used in different climatic areas, snowy, cold, marine and salty environments. Cable accessories passed operation experience with temperature cycling test, corrosion resistance test

etc.

Installation:

1. Prepare the exact size and type of down lead buckle, depend on cable size.
2. Use the band solution to attach in to pole.
3. Fix the band or tie by using buckle.

Technical specification:

| Product code | DB-10 | DB-20 |
|--------------------|------------------|--------------|
| Max band width | 3/8" – 10 mm | 3/4" – 20 mm |
| Min band thickness | 0.012" – 0.30 mm | |
| Grades | 201, 304 | |


STAINLESS STEEL TIE, SCREW LOCKING SYSTEM
Product information:

Stainless steel tie, screw locking used to attach the fiber optic drop cable bracket, or other kinds of mounts. The design and the materials provide the outstanding quality, which allows them to be used in different climatic areas, snowy, cold, marine and salty environments. Passed operation experience with temperature cycling test, corrosion resistance test.

Technical specification:

| Product code | DZ |
|---------------|---------------------------------|
| Width, mm | 10, 12, 16, 19 |
| Thickness, mm | 0.7 |
| Length, mm | 400, 600, 800, 1000, 1200, 1400 |
| Grades | 201, 304 |


STAINLESS STEEL PUSH-LOCK BUCKLE
Product information:

Push lock strapping buckle used to attach fiber optic brackets to pole by band. Ratchet mechanism helps to be applied for attaching of street signs, video cameras and other cables and mounts to the poles. This push-lock buckle is analog of stainless steel tie, but more convenient. Because it's allowed to cut needed length of it, using the banding tool.

which allows them to be used in different climatic areas, snowy, cold, marine and salty environments. Cable accessories passed operation experience with temperature cycling test, corrosion resistance test etc.

Installation:

1. Prepare the exact size and type of push lock tie, depend on tension strength required.
2. Cut the band using simple tools.
3. Insert the band into buckle, bend the end.
4. Band it over the accessory and pole.
5. Fix the tie into it's locking part, by hand or hummer, until maximum.

Tie are used in marine and railway transportation, mining, oil, water and gas construction industry, underground drilling and other general applications including hoses, pipes and control devices or cabinets.

Stainless steel band for this solution come with a safety cut edges for safe maintenance. The design and the materials provide the outstanding quality of ties,

Technical specification:

| Product code | LB-10 | LB-20 |
|--------------------|------------------|--------------|
| Max band width | 3/8" – 10 mm | 3/8" – 20 mm |
| Min band thickness | 0.012" – 0.30 mm | |
| MBL, Kn | 1.9 | 3 |
| Length | Cut by tool | |
| Grades | 201, 304 | |

FIBER OPTIC BOXES & JOINT CLOSURES FOR OUTDOOR FTTH DEPLOYMENT

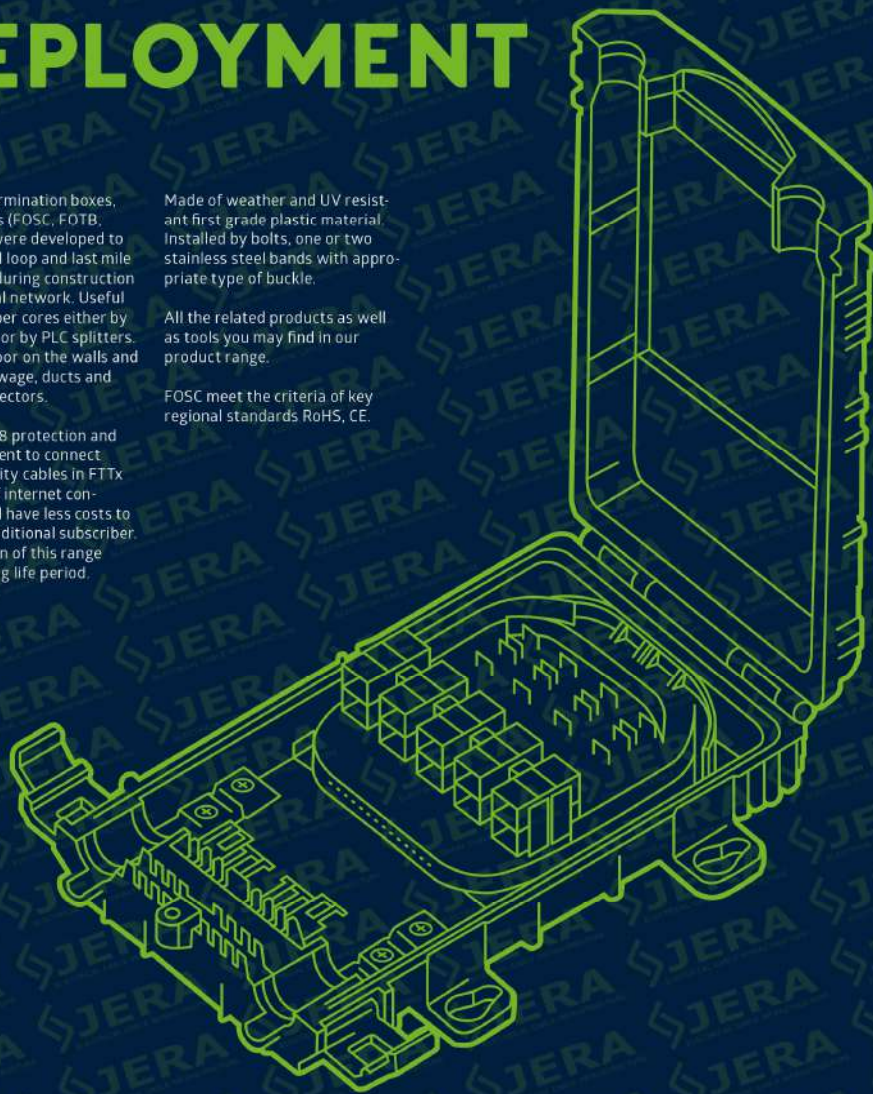
Fiber optic termination boxes, sockets, joints (FOSC, FOTB, FODB, ODP) were developed to use on central loop and last mile cable routes during construction of fiber optical network. Useful to joint the fiber cores either by fusion splicer or by PLC splitters. Applied outdoor on the walls and poles or in sewage, ducts and industrial collectors.

Provides IP-68 protection and more convenient to connect smaller capacity cables in FTTH technology of internet construction, and have less costs to connect an additional subscriber. Modern design of this range guarantee long life period.

Made of weather and UV resistant first grade plastic material. Installed by bolts, one or two stainless steel bands with appropriate type of buckle.

All the related products as well as tools you may find in our product range.

FOSC meet the criteria of key regional standards RoHS, CE.



FODB-8 (12)



FODB-8C1 (12)

Product information:

Fiber optical distribution boxes FODB-8 and FODB-8C1, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-8 seria can be applied outdoor, poles, walls.

Useful design of splice tray and accessories allows be appropriate for 10 SC adapters and 1 of 1x8 or 2 of 1x4 of mini cassette PLC SC splitter, which are available in Jera's

products range. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage. Plastic hangers of telecommunication box allow fixating the feeding fibers by nylon ties.

FODB-8 seria are made high quality termpolastic, which guarantee wet, dust, proof and outdoor or indoor usage. Anti-vandal lock provided for security. Wall-mounted type of installation is

done by 4 galvanized screws of 18x4 size. FODB-8 has 2 mounts for stainless steel band usage. Optical termination boxes contain the fixation brackets for cable wire. Light and pleasing in appearance, FODB has strength mechanical protection and easy maintenance. Provides easy users access or data access based on FTTH networks.

Technical specification:

| Product code | FODB-8 (12) | FODB-8C1 (12) |
|--------------------------------|----------------------------------|----------------------------------|
| Fiber's capacity | 12 | 12 |
| Inputs and cable diametres | 2 × Ø > 14 mm, 8 × Ø 2-3 mm | 2 × Ø > 14 mm, 8 × Ø 2-3 mm |
| Dimensions, mm | 247 × 159 × 46 | 247 × 159 × 46 |
| Adaptors SC | 10 | — |
| PLC SC splitters | 1 × 1'8, 2 × 1'4 | — |
| Cassette PLC SC splitters | — | — |
| Mini cassette PLC SC splitters | — | 1 × 1'8, 2 × 1'4 |
| Application | Outdoor, last mile connection | Outdoor, last mile connection |



FOSC-2A (12)

FOSC-2C1 (12)

Product information:

Fiber optical splice closures FOSC-2A and FOSC-2C1 are the dome type closures, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FOSC-2 seria can be applied outdoor, poles, walls.

which are available in Jera's products range. All mentioned optical network accessories could be fixed inside the box.

Has 8 round inputs and 1 oval input, maximum capacity is 12 fibers. Splice tray capacity is 12 fibers. The sealing is realized with heat shrink tubes. Additional bracket allows installation either on concrete pole, and on wooden walls.

Useful design of splice tray and accessories allows be appropriate for 10 SC adapters and 1 of 1x8 PLC SC splitters, or 1 of 1x8 or 2 of 1x4 of mini cassette PLC SC splitter,

Technical specification:

| Product code | FOSC-2A(12) | FOSC-2C1(12) |
|--|-----------------------------------|-----------------------------------|
| Fiber's capacity | 12 | 12 |
| Inputs and cable diametres | 8 × Ø 2 – 3 mm, 1 × 16 – 40 mm | 8 × Ø 2 – 3 mm, 1 × 16 – 40 mm |
| Dimensions, mm | 300 × 180 × 130 | 300 × 180 × 130 |
| Adaptors SC | 10 | – |
| PLC SC splitter / Mini cassette PLC SC splitter | 2 – 1 × 4 1 – 1 × 8 | 2 – 1 × 4 1 – 1 × 8 |
| Application | Outdoor, last mile connection | Outdoor, last mile connection |



FOSC-2D (48)

FOSC-3 (96)

Product information:

Fiber optical splice closure FOSC-2D (96) is dome type closure, designed to splice and branch fiber optical cables on overhead and unground routes.

Product information:

Fiber optical splice closure FOSC-3 (96) is dome type closure, designed to splice and branch fiber optical cables on overhead and unground routes.

Has 3 round inputs and 1 oval input, maximum capacity is 96 fibers. Splice tray capacity is 24 fibers, where fibers are stored in 2 layers. The sealing is realized with heat shrink tubes. Additional bracket allows installation either on concrete pole and on wooden walls.

Has 3 round inputs and 1 oval input, maximum capacity is 96 fibers. Splice tray capacity is 12 fibers. In addition, fiber cores can be managed to 96, by 2 layers store in splice tray. The sealing is realized with heat shrink tubes. Additional bracket allows installation either on concrete pole and on wooden walls.

Technical specification:

| Product code | FOSC-2D (48) | FOSC-3 (96) |
|--|----------------------------------|-------------------------------------|
| Fiber's capacity | 12/24/96 | 24/96 |
| Inputs and cable diametres | 3 × Ø 16 mm, 1 × 16 – 40 mm | 3 × Ø 16 mm, 1 × 25 – 40 mm |
| Dimensions, mm | 300 × 180 × 130 | 435 × 190 × 160 |
| Adaptors SC | – | – |
| PLC SC splitter / Mini cassette PLC SC splitter | – | – |
| Application | Outdoor, last mile connection | Outdoor, central loop connection |

FIBER OPTIC BOXES FOR FTTX INDOOR/OUTDOOR DEPLOYMENT OF DROP AND DISTRIBUTION CABLES

Fiber optic termination boxes and sockets (FOTB, FODB, ODP) were developed to use on central loop and last mile cable routes during construction of fiber optical network. Useful to joint the fiber cores either by fusion splicer or by PLC splitters. Commonly applied outdoor and indoor on the walls and poles.

Applied to be used with drop and distribution cables.

FODB provides less IP protection compared to fiber optic splice closures, however more convenient to connect smaller capacity cables in FTTH technology of internet construction, and have less costs to connect an additional subscriber. Modern design of this range guarantee long life period.

Our FODB are made of weather and UV resistant first grade plastic material.

FODB installed by bolts or one or two stainless steel bands with appropriate type of buckle. All the related products as well as tools you may find in our product range.

FODB meet the criteria of key regional standards RoHS, CE.



FIBER OPTICAL DISTRIBUTION SOCKET



ODP-02 (1)



ODP-04 (4)



FODB-6

Product information:

Fiber optical distribution point ODP-02 is a wall outlet designed to terminate fiber optical cords, patch cords, pigtail cords, with adaptors in FTTH network. Applied in buildings and houses to connect end user to network. ODP-02 has two or four ports, which provide the installation of one or two fiber optic adapters, built on the regular SC footprint.

ODP-02 provides mechanical protection, flexible fiber route management and control, easy installation because of features, implemented in design.

ODP-02M has metal mount for feeding patch cord or optic fiber cable, which facilitates the installation process. Optic fiber cable will be tightly fixed inside of drop wire socket.

ODP-02 is made of ABS plastic. Indoor wall-mounted type of installation is done by 2 galvanized screws of 25 x 4 size.

The dimensions of ODP-02 are wide enough for suitable fiber cord bending radius. No splice tray required, light and pleasing in appearance, has strength mechanical protection. Provides easy users access or data access based on FTTH networks.

Product information:

Fiber optical distribution point ODP-04 is a wall outlet designed to terminate fiber optical cords, patch cords, pigtail cords, with adaptors in FTTH network. Applied in buildings and houses to connect end user to network. ODP-04 has four ports, which provide the installation of one or two fiber optic adapters, built on the regular SC footprint.

ODP-04 provides mechanical protection, flexible fiber route management and control, easy installation because of features, implemented in design.

ODP-04 is made of ABS plastic. Indoor wall-mounted type of installation is done by 4 galvanized screws of 25 x 4 size.

The dimensions of ODP-04 are wide enough for suitable fiber cord bending radius. Splice tray required, light and pleasing in appearance, has strength mechanical protection. Provides easy users access or data access based on FTTH networks.

Product information:

Fiber optical distribution boxes FODB-2, FODB-4, FODB-6, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box.

FODB-2, FODB-4, FODB-6 are compact and convenient to be used in entrance of terminals, buildings telecommunications closets, where wall space is a superior small, however is wide enough for suitable fiber cord bending radius.

FODB-2, FODB-4, FODB-6 provide the installation of one – six fiber optic drop cords, built on the regular SC fiber optical adaptors or heat splicing. Splice tray allows installation of splice protection sleeves or PLC splitters.

FODBs are made of PC+ABS, PVC, which guarantee wet, dust, proof and outdoor or indoor usage. Wall-mounted type of installation is done by 3 galvanized screws of 18 x 4 size. Boxes contain the fixation bracket for cable wire. No ground device. Anti-vandal, equipped by lock and key. Light and pleasing in appearance. FODB has strength mechanical protection and easy maintenance. Provides easy users access or data access based on FTTH networks.

Technical specification:

| Product code | ODP-02 | ODP-04 | FODB-6 |
|--------------------------------|------------------------------|------------------------------|------------------------------|
| Fiber's capacity | 1 | 4 | 6 |
| Inputs and cable diametres | 1 x Ø 3 mm, 3 x 2 mm | 1 x Ø 3 mm, 3 x 2 mm | 1 x Ø 10 mm, 6 x Ø 3 mm |
| Dimensions, mm | 86 x 86 x 22 | 149 x 110 x 33 | 125 x 185 x 40 |
| Adaptors SC | 2 | 4 | 6 |
| PLC SC splitters | — | — | 1 x 14 |
| Cassette PLC SC splitters | — | 1 - 1 x 4 | — |
| Mini cassette PLC SC splitters | — | — | — |
| Application | Indoor, last mile connection | Indoor, last mile connection | Indoor, last mile connection |


FODB-8A (12)
Product information:

Fiber optical distribution box FODB-8A, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-8A can be applied in buildings, FTTx closets, poles, walls.

Useful design of splice tray and accessories allows be appropriate for 1 × 8 PLC splitter, SC fiber adapters or 12 splice protection sleeves. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage. Plastic hangers of telecommunication box allow fixating the feeding fibers by nylon ties.

FODB-8A has three or two transit inputs, which is not require to cut or terminate the optical cable before installation.

FODB-8A is made of PC-ABS, PVC, which guarantee wet, dust, proof and outdoor or indoor usage. Wall-mounted type of installation is done by 4 galvanized screws of 18 × 4 size. FODB-8A has 2 mounts for stainless steel band usage. Optical termination boxes contain the fixation brackets for cable wire. No ground device. Anti-vandal, equipped by lock and key.

Technical specification:

| Product code | FODB-8A (12) | FODB-8C (12) | FODB-12 (12) |
|---------------------------------------|--|--|--|
| Fiber's capacity | 12 | 12 | 12 |
| Inputs and cable diametres | 3 or 2 transit Ø 17 mm; 8 × Ø 3 mm; 1 × Ø 17 | 3 or 2 transit Ø 17 mm; 8 × Ø 3 mm; 1 × Ø 17 | 2 Ø 12 mm; 12 × Ø 3 mm; 1 × Ø 17 |
| Dimensions, mm | 210 × 195 × 55 | 210 × 195 × 55 | 235 × 200 × 62 |
| Adaptors SC | 10 | — | 12 |
| PLC SC splitters | 1 × 1'8, 2 × 1'4 | — | 1 × 1'8, 2 × 1'4 |
| Cassette PLC SC splitters | — | 1 × 1'8 | — |
| Mini cassette PLC SC splitters | — | — | — |
| Application | Outdoor, last mile connection | Outdoor, last mile connection | Outdoor, last mile connection |


FODB-8C (12)
Product information:

Fiber optical distribution box FODB-8C, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-8C can be applied in buildings, FTTx closets, poles, walls.

Useful design of splice tray and accessories allows be appropriate for 1 cassette 1×8 PLC splitter. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage. Plastic hangers of telecommunication box allow fixating the feeding fibers by nylon ties.

FODB-8C has three or two transit inputs, which is not require to cut or terminate the optical cable before installation.

FODB-8C are made of PC-ABS, PVC, which guarantee wet, dust, proof and outdoor or indoor usage. Wall-mounted type of installation is done by 4 galvanized screws of 18 × 4 size. FODB-8C has 2 mounts for stainless steel band usage. Optical termination boxes contain the fixation brackets for cable wire. No ground device. Anti-vandal, equipped by lock and key.


FODB-12 (12)
Product information:

Fiber optical distribution box FODB-12, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-12 can be applied in buildings, FTTx closets, poles, walls.

Useful design of splice tray and accessories allow be appropriate for 12 SC fiber adapters, or 12 splice protection sleeves. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage. Plastic hangers of telecommunication box allow fixating the feeding fibers by nylon ties. FODB-12 has two transit inputs, which is not require to cut or terminate the optical cable before installation.

FODB-12 is made of PC-ABS, PVC, which wet, dust, proof and outdoor or indoor usage. Wall-mounted type of installation is done by 3 galvanized screws of 38 × 4 size. Optical termination boxes contain 2 fixation brackets for cable wire, ground device, 12 splice protection sleeves, 12 nylon ties. Anti-vandal lock provided for security.

Light and pleasing in appearance, FODB has strength mechanical protection and easy maintenance. Provides easy users access or data access based on FTTH networks.


FODB-16X (16)
Product information:

Fiber optical distribution box FODB-16X, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-16X can be applied in buildings, FTTx closets, poles, walls.

Useful design of splice tray and accessories allows be appropriate for 1 × 8 PLC splitters, SC fiber adapters or 16 splice protection sleeves. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage. Plastic hangers of telecommunication box allow fixating the feeding fibers by nylon ties.

FODB-16X is made of PC-ABS, PVC, which guarantee wet, dust, proof and outdoor or indoor usage. Optic distribution boxes contain 2 fixation brackets for cable wire, ground device, 16 splice protection sleeves, 16 nylon ties. Anti-vandal lock provided for security. Wall-mounted type of installation is done by 4 galvanized screws of 18 × 4 size. FODB-16X has 2 mounts for stainless steel band usage. Optical termination boxes contain the fixation brackets for cable wire. No ground device. Anti-vandal, equipped by lock and key.

Technical specification:

| Product code | FODB-16X (16) | FODB-16C (16) | FODB-24 (24) |
|---------------------------------------|----------------------------------|----------------------------------|---|
| Fiber's capacity | 16 | 16 | 24 |
| Inputs and cable diametres | 2 × Ø 17 mm; 16 × Ø 3 mm | 2 × Ø 17 mm; 16 × Ø 3 mm | 2 × Ø 15 mm; 24 × Ø 3 mm; 3 × Ø 10 mm |
| Dimensions, mm | 320 × 260 × 90 | 300 × 230 × 70 | 350 × 280 × 100 |
| Adaptors SC | 16 | — | 24 |
| PLC SC splitters | 1 × 1'16, 2 × 1'8 | 1 × 1'16, 2 × 1'8 | 3 × 1'8, 6 × 1'4, 12 × 1'2 |
| Cassette PLC SC splitters | — | — | — |
| Mini cassette PLC SC splitters | — | — | — |
| Application | Outdoor, last mile connection | Outdoor, last mile connection | Outdoor, last mile connection |


FODB-16C (16)
Product information:

Fiber optical distribution box FODB-16C, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-16C can be applied in buildings, FTTx closets, poles, walls.

Useful design of splice tray and accessories allow be appropriate for 2 of cassette 1 × 8 splitters, which are available in Jera's products range. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage. Plastic hangers of telecommunication box allow fixating the feeding fibers by nylon ties.

FODB-16C is made of PC-ABS, PVC, which guarantee wet, dust, proof and outdoor or indoor usage. Optic distribution boxes contain 2 fixation brackets for cable wire, ground device, 16 splice protection sleeves, 16 nylon ties. Anti-vandal lock provided for security. Wall-mounted type of installation is done by 4 galvanized screws of 18 × 4 size. FODB-16C has 2 mounts for stainless steel band usage. Optical termination boxes contain the fixation brackets for cable wire. No ground device. Anti-vandal, equipped by lock and key.


FODB-24 (24)
Product information:

Fiber optical distribution box FODB-24, designed to terminate feeding optical cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-24 can be applied in buildings, FTTx closets, poles, walls.

FODB-24 has 29 ports that provides the installation from 1 to 24 optic drop cords, based on the regular SC fiber adaptors or splice protection sleeves. 2 optic feeders can be used. A main and additional splice tray allows installation of splice protection sleeves or PLC splitters.

FODB-24 is made of PC-ABS, PVC, which guarantee wet, dust, proof and outdoor or indoor usage. Optic distribution boxes contain 2 splice protection sleeves, 8 nylon ties. Anti-vandal lock provided for security.

The dimensions of FODB-24 are wide enough for appropriate fiber bending radius. Light and pleasing in appearance, box has strength mechanical protection and easy maintenance. Provides an easy users access or data access based on FTTH.


1U-12-SC
Product information:

19" rack mount fiber optic distribution frame, 1U-12-SC, specified to be installed in 19 inch cabinets of optic fiber telecom networks, in CATV equipment rooms and network equipment room. ODF 1U-12-SC can accommodate up to 12 of fiber core connections base on regular SC/APC, LC/Duplex, SC/UPC types of patch cords and fiber optic adapters.

ODF is made of steel, painted by special, which guarantee long period of indoor usage and cooling. Cabinet-mounted type of installation is done by 4 galvanized screws. ODF 1U-12-SC has 12 fiber trays for heat shrinkable tubes, has no changeable adapters faceplate holder.


1U-24-SC-S, 1U-24-SC
Product information:

Pulldown 19" rack mount fiber optic distribution frame, 1U-24-SC, specified to be installed in 19 inch cabinets of optic fiber telecom networks, in CATV equipment rooms and network equipment room. ODF 19" rack mount helps to connect optical cables, proceed and appropriate cable management, which provide reliable protection and long life period of usage of FTTH networks.

ODF 1U-24-SC can accommodate up to 24 of fiber core connections base on regular SC/APC, LC/Duplex, SC/UPC types of patch cords and fiber optic adapters.

ODF is made of steel, painted by special, which guarantee long period of indoor usage and cooling. Cabinet-mounted type of installation is done by 4 galvanized screws.

ODF has 12 fiber trays for heat shrinkable tubes, has 3 changeable adapters faceplates holder, in order to replicate the SC and FC connectors type if needed. 24 ports of fiber optic patch panels are available in our product range with pre-assembled adapters as well.


1U-48-SC-P
Product information:

Pulldown 19" rack mount fiber optic distribution frame, 1U-48-SC-P, specified to be installed in 19 inch cabinets of optic fiber telecom networks, in CATV equipment rooms and network equipment room. ODF can accommodate up to 48 of fiber core connections base on regular SC/APC, LC/Duplex, SC/UPC types of patch cords and fiber optic adapters.

ODF is made high strength plastic, cabinet-mounted type of installation is done by 4 galvanized screws. ODF has 12 fiber trays for heat shrinkable tubes, maximum capacity of 4 trays.


FODB-8R (12)
Product information:

Fiber optical distribution boxes FODB-8R and FODB-8RC1, designed to terminate feeding optical rizer cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-8R seria can be applied indoor, in buildings.

Useful design of splice tray and accessories allows be appropriate for 10 SC adapters and 1 of 1x8 PLC SC splitters, or 1 of 1x8 or 2 of 1x4 of mini cassette PLC SC splitter, which are available in Jera's products range. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage.

FODB-8R seria are made high quality termoplastic, which guarantee wet, dust, proof and outdoor or indoor usage. Anti-vandal lock provided for security. Wall-mounted type of installation is done by 4 galvanized screws of 18x4 size. Optical termination boxes contain the fixation brackets for cable wire. Light and pleasing in appearance. FODB has strength mechanical protection and easy maintenance. Provides easy users access or data access based on FTTH networks.


FODB-8RC1 (12)
Product information:

Fiber optical distribution boxes FODB-8R and FODB-8RC1, designed to terminate feeding optical rizer cable and connect last mile cables as fiber optical cords, patch cords, pigtail cords according to capacity of distribution box. FODB-8R seria can be applied indoor, in buildings.

Useful design of splice tray and accessories allows be appropriate for 10 SC adapters and 1 of 1x8 PLC SC splitters, or 1 of 1x8 or 2 of 1x4 of mini cassette PLC SC splitter, which are available in Jera's products range. All mentioned optical network accessories could be fixed inside the box. Stainless steel ties of fiber box allow fixating feeder cable of different size, without slippage.

FODB-8R seria are made high quality termoplastic, which guarantee wet, dust, proof and outdoor or indoor usage. Anti-vandal lock provided for security. Wall-mounted type of installation is done by 4 galvanized screws of 18x4 size. Optical termination boxes contain the fixation brackets for cable wire. Light and pleasing in appearance. FODB has strength mechanical protection and easy maintenance. Provides easy users access or data access based on FTTH networks.

Technical specification:

| Product code | 1U-12-SC | 1U-24-SC-S | 1U-24-SC | 1U-48-SC-P |
|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Splice tray capacity | 12 fibers | 12 fibers | 12 fibers | 12 fibers |
| Inputs and cable diametres | 4, diameter 12 – 17 mm | 4, diameter 12 – 17 mm | 4, diameter 12 – 17 mm | 4, diameter 12 – 17 mm |
| Dimensions, mm | 490 × 340 × 45 | 490 × 340 × 45 | 490 × 340 × 45 | 435 × 300 × 44 |
| Adaptors | 24 SC, LC | 24 SC, LC | 24 SC, LC | 24 SC, LC |
| Separate adapter placates | Yes | Yes | No | No |
| Application | Indoor, last mile connection | Indoor, last mile connection | Indoor, last mile connection | Indoor, last mile connection |

Technical specification:

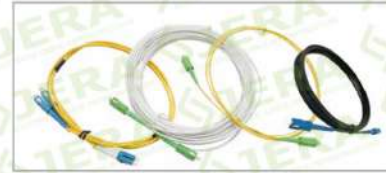
| Product code | FODB-8R (12) | FODB-8RC1 (12) |
|--------------------------------|--------------------------------|--------------------------------|
| Fiber's capacity | 12 | 12 |
| Inputs and cable diametres | 2 × Ø - 14 mm, 8 × Ø 2-3 mm | 2 × Ø - 14 mm, 8 × Ø 2-3 mm |
| Dimensions, mm | 126 × 150 × 51 | 126 × 150 × 51 |
| Adaptors SC | 10 | — |
| PLC SC splitters | 1 × 1*8, 2 × 1*4 | — |
| Cassette PLC SC splitters | — | — |
| Mini cassette PLC SC splitters | — | 1 × 1*8, 2 × 1*4 |
| Application | Indoor, last mile connection | Indoor, last mile connection |

FIBER OPTIC ADAPTERS, PATCHCORDS, FAST CONNECTORS

Fiber optic adapters, connectors and fiber optic patch cords are used for fiber optical cables connections to an optical telecommunication equipment. Used to connect the optical transmitter, receiver and PON boxes. Regularly used and widely applied in optical fiber management system, last mile end user's connection, all connections in data centers of GPON, XPON projects. By the diversity of telecommunication optic patch cords have common varieties such as SC, FC, LC, ST, E2000 types. With different lengths,

jacket materials, thickness, glass fiber core types. Simplex or duplex types are available in our product range.

Fiber optic fast connector provides quick access for connection of fiber cords in FTTx, CATV, telecommunication networks without stripping and splice fusion of fiber. After installation both the optical and mechanical performance reach the standard for FTTH.



Technical specification:

| Product code | SC | FC | LC | ST | DROP PATCHCORD |
|---------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Polish types | UPC, APC | UPC, APC | UPC, APC | UPC, APC | UPC, APC |
| Fiber cores | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 |
| Fiber counts | Simplex, duplex | Simplex, duplex | Simplex, duplex | Simplex, duplex | Simplex |
| Fiber modes | Singlemode 9/125, multimode 50/125 | Singlemode 9/125, multimode 50/125 | Singlemode 9/125, multimode 50/125 | Singlemode 9/125, multimode 50/125 | Singlemode 9/125, multimode 50/125 |
| Diameter, mm | 0.9, 2.0, 3.0 | 0.9, 2.0, 3.0 | 0.9, 2.0, 3.0 | 0.9, 2.0, 3.0 | 0.9, 2.0, 3.0 |
| Length, M | 0.5, 1, 2, 3, 5, 10 | 0.5, 1, 2, 3, 5, 10 | 0.5, 1, 2, 3, 5, 10 | 0.5, 1, 2, 3, 5, 10 | 40, 60, 80, 100 |
| Insertion losses (IL), dB | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 |
| Materials | PVC, LSZH | PVC, LSZH | PVC, LSZH | PVC, LSZH | PVC, LSZH |
| Working temperature | -40~+85 | -40~+85 | -40~+85 | -40~+85 | -50~+85 |



Technical specification:

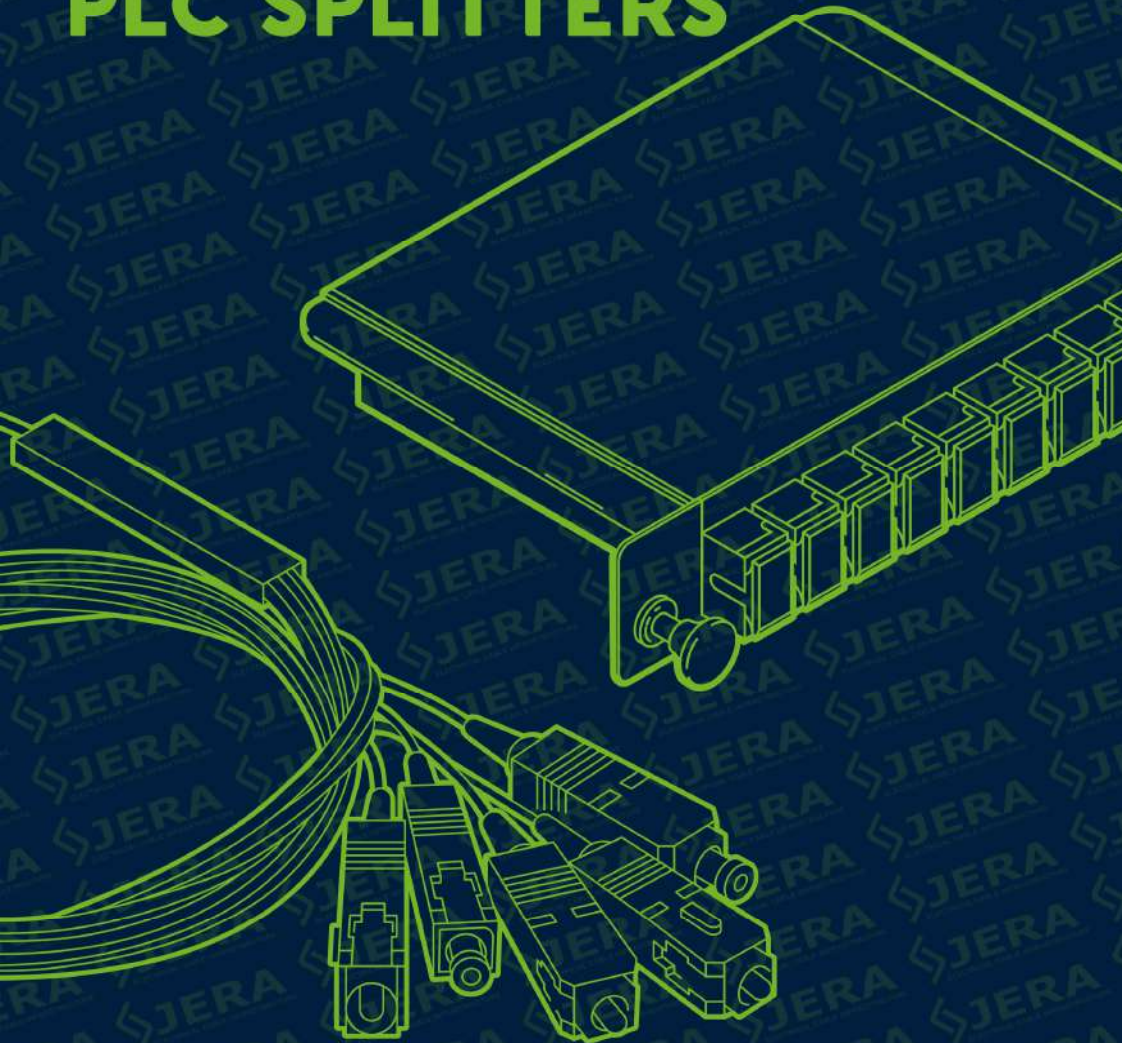
| Product code | SC | FC | LC | ST | E2000 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Polish types | UPC, APC | UPC, APC | UPC, APC | UPC, APC | UPC, APC |
| Fiber counts | Simplex, duplex | Simplex, duplex | Simplex, duplex | Simplex, duplex | Simplex, duplex |
| Insertion losses (IL), dB | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 |
| Working temperature | -40~+85 | -40~+85 | -40~+85 | -40~+85 | -40~+85 |



Technical specification:

| Product code | SC/UPC-F | SC/APC-F |
|---------------------------|----------|----------|
| Polish types | UPC | APC |
| Fiber counts | Simplex | Simplex |
| Insertion losses (IL), dB | ≤ 0.3 | ≤ 0.3 |
| Working temperature | -40~+85 | -40~+85 |

FIBER OPTIC PLC SPLITTERS



Fiber optic PLC (Planar Lightwave Circuit) splitters are based on a quartz integrated wave guide optical light distribution device. Fiber optical network uses an optical signal coupled to the branches to connect the terminal equipment and to branch the optical signal. PLC splitter connects many input and output terminals, in a passive optical net-

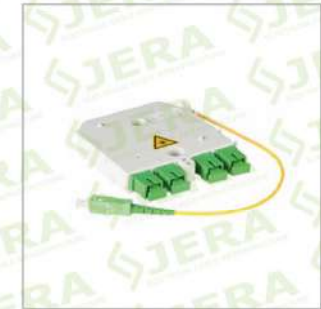
work (GPON, FTTH, FTTC). Fiber optic cable ends capped with connectors of 1'2-1'32 fibers. To speed up an installation process we produce assemble the splitter cassette from 4 to 16 of SC adapters were installed.



USUAL 1 × 8, 1 × 16



MINI 1 × 8



MINI 1 × 4

Technical specification:

| Product code | 1 × 2 | 1 × 4 | 1 × 8 | 1 × 16 | 1 × 32 |
|---------------------------|---|---|---|------------------------------|-----------------------|
| Insertion losses (IL), dB | 3.8 | 7.4 | 10.7 | 13.8 | 16.8 |
| Directivity, dB | 55 | 55 | 55 | 55 | 55 |
| Head types | SC/UPC, SC/APC | SC/UPC, SC/APC | SC/UPC, SC/APC | SC/UPC, SC/APC | SC/UPC, SC/APC |
| Fiber cores | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 | G652D, G657A1, G657A2 |
| Operating wavelength (nm) | 1260-1650 | 1260-1650 | 1260-1650 | 1260-1650 | 1260-1650 |
| Thickness, mm | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Length, M | 0.5 - 2 | 0.5 - 2 | 0.5 - 2 | 0.5 - 2 | 0.5 - 2 |
| Cassette type | w/o cassette, with usual cassette, with mini cassette | | | | |
| Cassette dimensions, mm | Mini 72 × 82 × 12.5 Usual 128 × 100 × 25 | Mini 72 × 82 × 12.5 Usual 128 × 100 × 25 | Mini 72 × 82 × 22 Usual 128 × 100 × 25 | Usual only 128 × 100 × 50 | - |
| Working temperature | -40--+85 | -40--+85 | -40--+85 | -40--+85 | -40--+85 |

PULLING TOOLS FOR FIBER OPTIC CABLE INSTALLATION



Stringing overhead pulling tools were developed to be used with fiber optic cable in line construction. Such equipment have the access to pull conductors by manual or machine force. Pulling force converts to clamping force and easily allows pulling fiber optical cables.

Common installation set includes: FRP duct rodder, overhead stringing block (pulley), come-along, stringing lever hoist, overhead pulling cable grip, swivel shackle, separating wedges.

Simple desing and durability allows with stand sufficient loads without cable slip or it's damage.



FIBER GLASS DUCT RODDER, WHEEL TYPE

Product information:

Fiber glass duct rodders also called fiberglass snake rodgers were developed for rodding operations and underground jobs such as pulling cables through duct and pipes.

Glassfiber reinforced composite core, covered by plastic jacket ensures long life period. Suitable for applying with pulling mechanical or electrical winch, which is

easy because of metal frame body on wheels. Wheels allow to carry on distances during the construction works.

High-tensile strength and water resistant provide this solution widely applied in the telecommunication operations. Reliable performance to help increase the efficiency of construction works.

Technical specification:

| Product code | DR-6/50 | DR-6/100 | DR-8/100 | DR-8/150 | DR-10/150 |
|---------------|---------|----------|----------|----------|-----------|
| FRP, mm | Ø 6 | Ø 6 | Ø 8 | Ø 8 | Ø 10 |
| FRP length, M | 50 | 100 | 100 | 150 | 150 |



STRINGING BLOCKS (PULLEY)

Product information:

Overhead stringing block (pulley) is used for pulling of the insulated areal conductor or ropes.

Block made of galvanized steel metal part and plastic coated groove. Also pulley can be made of aluminum alloy with synthetic material groove.

Stringing block can be equipped with locking rope, fitted with a hand swiveling hook.

Technical specification:

| Product code | MT 26-50-30 | MT 56-120-30 |
|--------------|-------------|--------------|
| MBL, kN | 20 | 21 |
| Material | Nylon | Al |
| Weight, kg | 1.5 | 2.5 |



COME-ALONGS

Product information:

Stringing overhead come-along is used for pulling conductors by manual or machine force.

Pulling force converts to clamping force and easily allows pulling cables.

Technical specification:

| Product code | MC-29/41 |
|----------------|----------|
| MBL, kN | 20 |
| Cable size, mm | Ø 4 - 22 |



LEVER HOISTS

Product information:

Stringing lever hoist is used for pulling conductors of a low voltage power to lifting loads by manual force, reverse can be use.

It is made of galvanized steel. This LV ABC mechanical winch can be used for all types of cable adjustments.



Technical specification:

| Product code | LH-15 | LH-20 | |
|--------------------|---------------|-------|-----|
| Pulling force, ton | Without block | 0.75 | 1.5 |
| | With block | 1.5 | 3 |
| Cable length, m | Without block | 3 | 3.0 |
| | With block | 1.6 | 1.6 |

PULLING SOCKS

Product information:

Overhead pulling cable grip is used for pulling of the insulated conductor, for ropes and cable with neutral messenger.

Overhead pulling cable grip are made of stainless steel or galvanized steel wires.



Technical specification:

| Product code | S10 | S12 | S15 |
|----------------|----------|-----------|-----------|
| MBL, kN | 10 | 12 | 15 |
| Cable size, mm | Ø 5 - 10 | Ø 10 - 14 | Ø 14 - 24 |
| Length, mm | 300 | 600 | 600 |

SWIVEL

Product information:

Swivel shackle is used with pulling socks to eliminate any twisting of conductor. Also it can be used to replace the old cable between winches.

This overhead swivel is used between two overhead pulling grips to replace an old conductor by a new one or between a pulling grip and the wire rope on the winch.

It prevents any twisting of the conductor.



Technical specification:

| Product code | MBL, kN | Cable size, mm | Dimensions, mm | | | | | |
|--------------|---------|----------------|----------------|----|----|----|----|-----|
| | | | A | B | C | D | E | F |
| SW-15 | 15 | Ø 12 | 12 | 87 | 33 | 29 | 12 | 113 |



Factory name:

YUYAO JERA LINE FITTING CO., LTD

Address

Yuyao, Zhejiang province, China

Phone (Sales)

+86-0574-58226131

E-mail

info@jera-fiber.com

Web

jera-fiber.com

Authorized distributor:

