EFFICIENCY AND QUALITY

Ericsson offers cost-efficient and scalable fiber optic network products to enable your lowest Total Cost of Ownership. Our commitment to quality and sustainability ensures future-proof solutions.
Contents

Central Termination Point
– Central Office Related Equipment
  Equipment Rack Systems....................................................6
  Optical Distribution Frames..................................................7
  Patch Cords, Pigtailed and Cable Assemblies........................10
  Splitters and Other Passive Optical Devices..........................12
  Fiber Optic Accessories.....................................................13

Fiber Access Network
  Feeder Network and Distribution Network..............................16
  Ericsson Micronet Air Blown Micro Cable................................16
  Microducts and Multiducts for Micro Cables............................17
  Duct Joints and Other Duct Accessories..................................18
  Fiber Distribution Hubs.......................................................20
  Drop and Premises Networks................................................21
  Ribbonet® Air Blown Fiber....................................................21
  Microducts and Multiducts for Air Blown Fiber.........................22
  Duct Joints and Other Duct Equipment......................................23
  Fiber Access Terminals.........................................................26
  Installation Tools and Accessories..........................................28
  Drop Cables........................................................................29
  Fiber Termination Boxes and O/E Conversion............................32

Fiber Transport Network
  Outdoor Installation............................................................33
  Cables for Duct Installation....................................................33
  Cables for Direct Buried Installation........................................36
  Cables for Aerial Installation....................................................39
  Joint Closures for Fiber Optic Cables.......................................41
  Submarine Installation..........................................................43
  Local Site Cabling...............................................................46
  Cables for Indoor Installation..................................................46
  Cables for Indoor/Outdoor Installation........................................48

Abbreviations........................................................................50

This catalog gives an overview of the Ericsson fiber optic products and passive network solutions. It does not cover every aspect that needs to be considered when deciding what type of product to choose. More detailed information can be found in the Ericsson online product catalogue at www.ericsson.com (see Products/Cables and Interconnect)

Ericsson AB
Sweden
Phone: +46 10 719 00 00

Certification
Ericsson is ISO 9001:2000 (Quality Management) and
ISO 14001:2004 (Environmental Management) certified
by Det Norske Veritas (DNV).

All Ericsson products – for all markets – are RoHS
(Restriction of hazardous substances) compliant.
The passive infrastructure in any fiber optic network is a long-term investment. It needs to be built on scalable and future-proof technology that is optimized in terms of capacity, quality and operational expenditure. This catalog presents an overview of our Passive Fiber Infrastructure offering. The offering includes ducts, air blown fiber systems, traditional optical fiber cables, optical distribution frames, tools and other installation accessories, all optimized for their specific application. All products are designed and tested to meet the highest quality and environmental standards. In addition to this, Ericsson provides end-to-end solutions for any fiber optic infrastructure, as well as system integration and managed services.

The catalogue is divided into three main sections: Central Office Related Equipment covers products that are common in any type of network, regardless of application. Equipment racks, Optical Distribution Frames (ODFs), patch cords and other fiber optic accessories are found here. Fiber Access Network covers products for efficient installation of access networks, including Fiber-to-the-Home (FTTH), Building (FTTB), Curb (FTTC) and similar architectures. This section also covers products for scalable campus and metro networks. Ericsson’s air blown fiber system Ribbonet® and Ericsson’s micro cable system, as well as components for efficient splicing and termination of access networks, are presented. Fiber Transport Network covers products for general network applications such as fiber optic cables for underground, aerial and submarine installation as well as local site cabling. This section also includes associated cables and components for splicing and termination of cables.
Central Termination Point
– Central Office Related Equipment

Efficient termination and patch handling

The Ericsson Central Termination Point offering features fiber management systems to efficiently and cost-effectively organize and terminate large quantities of fiber. The application in the central office environment is characterized by a minimum footprint in combination with class-leading capacity that allows well-organized and safe fiber termination to minimize operating errors.

1/8FM 108 213 Ericsson Multifiber Management System

The Multifiber Management System is a high-capacity fiber termination rack for central office applications. The rack is equipped with fiber management through vertical and horizontal cable guides. Excess fiber is stored in a dedicated compartment.

The basic system includes a 19" frame, side section with vertical patch cord overlength storage, side and back covers, doors and overhead cable tray. Optical Distribution Frames (ODFs) and patch cables are ordered separately.

Size: 800x1800x400mm
Capacity, equipment: 36U
Capacity, connections: up to 1536 (SC)

Ericsson Equipment Rack System

A multi-purpose 19" rack system suitable for installation of passive and active equipment together with the 1/8FM 108 213. The rack can also be used as a stand alone unit. For maximum flexibility, side and back covers, doors, optical Distribution Frames (ODFs), patch cables and other accessories are ordered separately.

Size: 600x1800x450mm
Capacity, equipment: 36U (1536mm)

NCD 518 Fiber Jointing Cabinets

Small/Medium and large cabinets for handling cable splices between incoming cables entering the central office and the cables from pre-terminated ODFs. The small/medium cabinet can be equipped with 6 extra organizers. The cabinets are designed for wall mounting but the large cabinet can also be mounted in a 19" or ETSI rack.

Type: Cable installation, 19", ETSI or wall mount
Size: Small/Medium – 360x300x130mm
Large – 440x600x220mm
Capacity: (single fiber)
Small/Medium – 24/96 splices
Large – 70/88 splices

Optical Distribution Frames

Optical Distribution Frames (ODFs) are integrated components in any fiber management system. They are available as rack-mounted units for 19" or ETSI racks, or as wall-mounted cabinets. The ODFs are available in a range of configurations depending on application:

Pre-terminated ODFs with stub cables are pre-installed with connectors and cable for quick and easy installation. Units with pre-terminated cables offer advantages such as faster installation, resulting in shorter time to revenue as well as guaranteed quality and performance. Several cable options are available. ODFs with stub micro cables are especially suitable for high packing density applications such as the Ericsson Multifiber Management System (MMS).

Pre-terminated ODFs, with micro cable on reel are delivered attached to a reel with longer lengths of outdoor rated micro cable, eliminating time consuming and costly splicing of cables in the central office. This is also a preferred option in combination with the Multifiber Management System.

ODFs for cable installation are intended for installation and termination of all kinds of fiber optic cables. The units are suitable for splicing pigtails or fiber ribbon fanouts as well as field-installable connectors. The ODFs are delivered empty, allowing the customer to order the pigtails/fanouts, adapters, splice protection sleeves and installation kit that best suit the specific application. The units can also be installed with pre-connectorized cable assemblies.

ODFs for air blown fiber are designed to handle terminated of ducts for air blown fibers. They are typically used in FTTx applications when blowing fibers directly to a central office or other distribution point. The air blown technology enables incremental installation when needed.

BAB 3261 Ericsson Light Weight Rack

This is an open light weight rack system suitable for installation in locked room compartments, containers, etc. The 2200 mm high frame is delivered in flat packages for convenient transport and handling even in the most constrained and difficult to reach areas. The rack can easily be cut to appropriate heights. The system also contains a patch handling system and accessories for mass handling of patch cords.

Type: Lightweight rack system
Size: 2200x600x450mm
Capacity: 48U
NCD 513+ ODF pre-terminated, with stub cable, 2U
Pre-terminated ODF with a capacity from 12 to 96 SC (96 LC) connectors. Options include: halogen-free, flame-retardant, loose tube, ribbon or micro cable. Optional accessories include horizontal patch cord guides for space-saving mounting directly onto the front of the ODF.

Type: Pre-terminated, 19" or ETSI mount, 2U
Size: 440x240x613mm
Capacity: 12-96 SC, 12-192 LC
Cable options: Halogen-free, flame-retardant, loose tube, ribbon or micro cable, 10-100m
Connector options*: SC, SC/APC, LC, LC/APC
* MU, E2000, ST, FC, MT-RJ available on request

NCD 513+ ODF, 2U, Pre-terminated with longer cable lengths
Pre-terminated ODF delivered with longer lengths of micro cable, typically up to 2000m. The unit is available with SC or LC connectors with a capacity of 12 to 96 connectors. Optional accessories include horizontal patch cord guides for space-saving mounting directly onto the front of the ODF.

Type: Pre-terminated on reel, 19" or ETSI mount, 2U
Size: 440x240x613mm excluding reel
Capacity: 12-96 connectors
Cable options: Micro cable, 10-2000m
Connector options: SC, SC/APC, LC, LC/APC

NCD 513+ ODF for cable installation, 2U
High capacity ODF with up to 96 SC connectors. Optional accessories include horizontal patch cord guides for space-saving mounting directly onto the front of the ODF, pigtails, fanouts, adaptors, splice sleeves, etc.

Type: Cable installation, 19" or ETSI mount, 2U
Size: 440x240x613mm
Capacity: 96 SC
Connector options: SC, SC/APC, LC, LC/APC

NCD 513+ ODF for cable installation, 1.5U
ODF with a capacity of up to 48 SC (96 LC) connectors. Optional accessories include horizontal patch cord guides for rack mounting directly under the ODF, pigtails, fanouts, adaptors, splice sleeves, etc.

Type: Cable installation, 19" or ETSI mount, 1.5U
Size: 440x240x613mm
Capacity: 48 SC, 96 LC
Connector options: SC, SC/APC, LC, LC/APC
* The capacity refers to splicing of fanouts. Maximum capacity for pigtails may be reduced.

NCD 520 0013 ODF for air blown fiber installation, 1U
Compact ODF with front access for simplified incremental installation of air blown fiber. The ODF has a capacity up to 48 SC (96 LC) connectors and clamps for up to 48 microducts. Optional accessories include horizontal patch cord guides, pigtails, fanouts, adaptors, splice sleeves etc.

Type: Air blown fiber installation, front access, 19" mount, 1U
Size: 450x280x443mm
Capacity: 48 SC, 96 LC
Connector options: SC, SC/APC, LC, LC/APC, MT-RJ
* The capacity refers to splicing of fanouts. Maximum capacity for pigtails may be reduced.

NCD 502 5000 ODF Patch Panels
Multi-purpose patch panels for central office equipment rack systems were no or limited access from the rear require total front access. The light-weight panel is divided in a left and right swingable section. Small system footprint and efficient workspace. Designed for pre-connected incoming cable assemblies.

Type: Pre-connected cable assemblies
Capacity: 485x200x43mm

NCD 518 1200 ODF for cable installation, wall mounted
Two-sided ODF with a capacity of up to 48 SC (96 LC) connectors. The ODF consists of two compartments with separate tools and is therefore suitable as a demarcation cabinet between different network owners. The cabinet can also be used as a joining box. Optional accessories include patch panels for different adapter types.

Type: Cable installation, wall mount
Size: 475x300x130 mm
Capacity: 48 SC, 96 LC
Connector options: SC, SC/APC, LC, LC/APC, ST, FC, MT-RJ

Patch Handling
There are a number of accessories available for handling of patch cables in rack systems such as storage unit, cable guides and end plugs.

BMF 304 41/1 and BMF 304 45 Flexfield Modules
Flexible ODF modules for SC connectors with 2x2, 4x2 or 6x2 SC adapters of singlemode quality. Flexible CAT6 modules for RJ45 connectors in the front and IDC terminators on the inside.

Type: 6x2 SC ODF module, 6 RJ IDC CAT6 module

NBA 101 17 Flexfield Subracks
There are several types of mechanics available for 1, 2 or 10 mounted modules.

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Product/Cables and Interconnect.
Patch Cords, Pigtails and Cable Assemblies

Ericsson’s fiber optic patch cords, pigtails and cable assemblies make up a full product range of fiber optic interconnections for use in any kind of environment. We provide virtually any type of fiber optic connector. Some examples are shown below.

Supported fiber types are singlemode G.657 (compatible to G.652), and multimode 50μm OM2, OM3 and 62.5μm OM2. The product range is divided into four main categories:

Patch cords that are used for quick and easy interconnect between line equipment or for cross connection between network interface equipment such as ODFs. Patch cords are available as simplex (1 fiber), duplex (2 fiber) and multifiber patch cables.

Pigtails, stub fibers with a fitted connector on one end, are normally spliced towards a cable or other type of fiber unit inside an ODF, wall outlet or other type of network equipment. The standard pigtail is made of a 0.9mm tight secondary protected fiber. Pigtails are available for all Ericsson’s connector options and fiber types.

Fanouts, fiber ribbons that are branched out in one end and fitted with connectors, enable ribbon-fiber splicing, minimize splice cost and increase packing density in network equipment.

Multifiber cable assemblies, or fiber optic patch cables, for interconnect applications are preferred when a high number of interconnections and a high packing density is required. The cable assemblies are available with 4-24 fibers and are delivered pre-terminated in one or both ends. To facilitate installation and to maximize packing density, Ericsson’s multifiber cable assemblies use extra-slim cables, typically 6-8mm regardless of fiber count.

Patch Cords, Pigtails and Fanouts, Standard grade

A series of patch cords, pigtails and fanouts that offers best price/performance ratio for access networks as well as general data communication applications. The products are made of bend resistant G657 fibers to minimize operating errors and enable highest packing density in interconnect applications.

TSR 395+ Patch Cords, Pigtails and Fanouts, Standard grade

Connector options: SC, SC/APC, LC, LC/APC
Performance: IL Typical*≤0.25, RL (PC)≥50, RL (APC)≥60
Standard lengths: 1, 2, 3, 5, 10m

* Insertion Loss against reference connector is according to IEC 61300-3-4 method B

Premium patch cords, pigtails and fanouts for demanding telecom applications with high requirements for stability. The product series offers the highest reliability under virtually any environmental conditions.

TSR 391+, TSR 392+ Patch Cords, Pigtails and Fanouts, High grade

Performance: TSR 391: IL Typical* (E2000)≤0.2, (FC, SC)≤0.15, (ST, LC)≤0.15, (FC/APC)<0.12, RL≥50
Performance: TSR 392: IL Typical*≤0.15, (FC/APC)<0.12, RL≥60

Standard and custom lengths available

* Insertion Loss against reference connector is according to IEC 61300-3-4 method B

Patch cables with 4 to 24 fibers, for high density interconnect applications. All cable assemblies are manufactured from ultra slim cables.

RPM 253+ Multifiber Cable Assemblies

Connector options: SC, SC/APC, LC, LC/APC
Performance: See connector performance above

* Insertion Loss against reference connector is according to IEC 61300-3-4 method B

For more detailed information and data sheets, please visit the Ericsson Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Interconnect
Splitters and Other Passive Optical Devices

Fiber optic splitters or couplers provide division of optical power from one or two input ports into several output ports. Symmetric optical power splitters are used for fiber optic communication systems such as PON/FTTx networks. Asymmetric power splitters are used for monitoring of transmission signals in fiber networks.

NCD 520 002+ Fiber Optic Splitter Shelf

Splitter shelf for 19” rack mounting with pre-installed fiber optic splitters. The shelves are available in different configurations with split ratios of 1x2 to 1x64. The standard connector option is SC/APC. Available in both standard and high grade.

Type: Splitter Shelf, 19”, 1U
Size: 410x195x44mm
Split ratio: 1x2 to 1x64

RDB 104 16+ PLC Splitters and FBT Couplers

Pigtailed PLC (Planar Lightwave Circuit) splitters and FBT (Fused Biconic Taper) couplers for fiber optic signal splitting in PON networks. The very compact size makes them suitable for installation in splice trays placed in joint closures, cabinets or optical termination panels. The splitters are available with one or two input ports and up to 64 output ports. The couplers are available with one or two input ports, and two output ports.

Type: Splitters 1x4 to 1x64, 2x4 to 2x32
Couplers 1x2, 2x2
Input: Splitters pigtail 250μm G657A
Output: Splitters fiber ribbon G657A
Input/output: Couplers pigtail 250μm G657A

NBA 301 04 and NBA 301 05 Splitter Frames

The indoor splitter frames are designed for compact mounting of splitter modules in 19” or ETSI racks with total front service. The most common use is for central office applications or larger distributed PON MDU sites. There are two frame heights available.

Type: (04) Splitter frame 1U for up to 9 splitter modules
(05) Splitter frame 1U for up to 35 splitter modules
Mounting: 19” or ETSI
* see splitter modules, page 20

NBA 102 0001723 Asymmetric Fiber Optic Splitter Shelf

The asymmetric division of the signal power is in a proportion of 10:90 split ratio which gives the ability to monitor or measure the transmission signal. The optical power splitter is mounted in a standard Ericsson 2U ODF chassis and fits both 19” and ETSI rack systems. It works both in the 1550nm and 1310nm wavelength area. The unit has 24 channels and is equipped with SC/APC connections for minimum back reflections.

Type: Monitor splitter
Size: 440x493x68mm
Split ratio: 10:90

Fiber Optic Accessories

Typical accessories for fiber optic interconnect and splicing applications include various essential and optional products such as fiber optic adapters for Optical Distribution Frames (ODFs) splice sleeves, connector cleaners, optical attenuators and labels.

RNT 992+ Adapters

Fiber optic adapters for ODFs and termination units, all of premium grade to fit any kind of application. Simplex, duplex and quadruplex connector options with color coding for identifying the correct connector and fiber type are available.

Connector options: SC, SC/APC, SCMM (simplex, duplex) LC, LC/UPC (simplex, duplex, quad) MU (duplex) E2000, E2000 APC (simplex, duplex) FC/PC MT-RJ ST FC

Typical accessories for fiber optic interconnect and splicing applications include various essential and optional products such as fiber optic adapters for Optical Distribution Frames (ODFs) splice sleeves, connector cleaners, optical attenuators and labels.

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com
Fiber-to-the-Home (FTTH) refers to fiber optic broadband connections to individual homes. FTTH networks are deployed either as a passive optical network (PON) with a partially shared fiber infrastructure, or as a point-to-point network (P2P) with dedicated fibers to each end user. Regardless of network type, the chosen technology must be able to support a variety of changes in the future as capacity and services evolve.

Ericsson’s solutions for Access Networks consist of the air blown microduct systems Micronet and Ribbonet®, as well as traditional fiber optic cables. The products are specially developed for access networks with the highest requirements for scalability, performance and reliability.

To Build for the Future

**Scalability**

The access networks built today must be scalable, not just regarding capacity, but also regarding topology. Typical examples of scalable technologies are Ericsson Ribbonet® and Micronet air-blown fiber and micro cable systems, where incremental installation of fiber, easy repair and upgrade are key elements. The system scalability minimizes the total cost of ownership.

**Versatility**

It is impossible to know what technological changes will happen in the future. Therefore more network component are designed for any possible topology or combination of topologies in the same product, for example PON (P2MP) and P2P. They will also support a full transformation from PON to P2P (or vice versa) without the need for additional civil works.

All of our major network components can handle any cabling type, for example air-blown fiber, micro cable, drop cables or traditional cable (a mix of the above).

**Sustainability**

All products are designed to minimize the environmental impact, from the manufacturing phase and through the whole lifecycle of the products. Total RoHS compliance and halogen-free materials are features of the entire product range. Packing materials are minimized or fully recyclable.
For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Interconnect

When deploying metropolitan and access networks, air blown micro cable technology offers great benefits. A microduct system enables quick and easy incremental installations of cables. The capacity of the network can quickly be increased by inserting new cables in spare microducts when needed. The system also minimizes the number of fiber splice joints in the network compared to traditional cable solutions. The Micronet system consists of micro cables, microducts, duct joints and accessories.

For our traditional loose tube and ribbon cables for the distribution and drop networks, see section Fiber Transport Network Solutions.

**Ericsson Micronet Air Blown Micro Cable**

When deploying metropolitan and access networks, air blown micro cable technology offers great benefits. A microduct system enables quick and easy incremental installations of cables. The capacity of the network can quickly be increased by inserting new cables in spare microducts when needed. The system also minimizes the number of fiber splice joints in the network compared to traditional cable solutions. The Micronet system consists of micro cables, microducts, duct joints and accessories.

For our traditional loose tube and ribbon cables for the distribution and drop networks, see section Fiber Transport Network Solutions.

**Feeder and Distribution Network**

The Feeder and Distribution Network is the foundation of any fiber access network. The feeder network connects any central office to fiber distribution points such as Fiber Distribution Hubs (FDHs). The FDH is the location of passive fiber optic devices such as fiber optic splitters and/or cross connection facilities. The distribution network distributes fiber from the FDH to the drop network.

**Microducts and Multiducts for Micro Cables**

Microducts and multiducts are available for several installation environments such as direct buried installation, installation into existing pipes or indoor installation. Ducts for aerial applications are presented in the section Drop and Premises Networks.

- **TOL 401 9017+ GNHLDV Micro Cable, Outdoor**
  - Design: Loose tube
  - Type: Dielectric, slim
  - Dimensions: Ø5.7-6.7mm
  - Capacity: 12-96 fibers

- **TOL 405 9006 GNHGBDU Micro Cable, Indoor**
  - Design: Loose tube
  - Type: Halogen-free, flame-retardant
  - Dimensions: Ø 6.2mm
  - Capacity: 12-24 fibers

- **TOL 401 90+ GNHLDV Micro Cable, Aerial applications**
  - Design: Loose tube
  - Type: Dielectric, extra slim for aerial applications
  - Dimensions: Ø5.7-6.7mm
  - Capacity: 12-96 fibers

- **MPF 302 7+ Protected Microducts for direct buried installation**
  - Ducts composed of 10/8mm or 12/9.6mm microducts with a heavy-duty HDPE sheath that enables direct installation in the ground. The microducts have a solid, low-friction inner surface coating for best installation performance.
  - Type: Direct buried installation
  - Dimensions, microducts: Ø 10/8mm or 12/9.6mm
  - Capacity: 1, 4, 7-way

- **MPF 302 6+ Microducts for duct installation**
  - Ducts composed of 10/8mm or 12/9.6mm microducts. The ducts are designed for installation in existing pipes or cable shafts. The microducts have a solid, low-friction inner surface coating for best installation performance.
  - Type: Installation in existing pipes
  - Dimensions, microducts: Ø 10/8mm or 12/9.6mm
  - Capacity: 1, 4, 7-way

- **MPF 302 3+ Protected Microducts for duct installation**
  - Ducts based on 10/8mm or 12/9.6mm microducts with a single HDPE sheath for easy installation of microduct bundles into existing pipes or cable shafts. The microducts have a solid, low-friction inner surface coating for best installation performance.
  - Type: Installation in existing pipes
  - Dimensions, microducts: Ø 10/8mm or 12/9.6mm
  - Capacity: 4, 7-way

- **MPB 302 71+ and MPB 302 73+ Protected Microducts for indoor use**
  - Microduct with a sheath made of halogen-free, flame-retardant material that enables installation of outdoor rated micro cables in indoor environments. Fiber splicing between indoor and outdoor environments can therefore be eliminated.
  - Type: Indoor installations
  - Dimensions, microduct: Ø 10/8mm or 12/9.6mm
  - Capacity: 1, 4, 7-way
Duct Joints and Duct Accessories

Successfully installing a system based on microducts requires components for splicing microducts, as well as protective closures for duct jointing and branching.

**MPB 306 01/10 and /12 Straight Connector**
- Microduct snap-in connectors for quick and easy splicing of microducts. The body is transparent for easy fault location during installation.
- Type: Straight connector
- Dimensions, microducts: Ø10/8mm or 12/9.6mm

**MPB 306 02/10 and /12 Gas Block Connector**
- Gas block microduct snap-in connectors normally used between indoor and outdoor environments to prevent air flow that may result in condensed water getting into ducts. After cable installation, the connector can be gas sealed by turning a ring on the body, which is transparent for easy fault location during installation.
- Type: Gas block straight connector
- Dimensions, microducts: Ø10/8mm or 12/9.6mm

**SXA 113 9137/10 and /12 End stop Connector**
- Microduct snap-in, end-stop connectors for permanent or temporarily sealing of unused microducts to prevent water and dust getting into the duct. The body is transparent for easy fault location during installation.
- Type: End stop
- Dimensions, microducts: Ø10/8mm or 12/9.6mm

**SXA 113 9151/10 Valve End-stop Connector**
- Valve end-stop connector used for pressurizing microducts prior to installation into existing ducts. The pressurization prevents the duct from collapsing during installation.
- Type: Valve end stop
- Dimensions, microducts: Ø10/8mm

**NDE 451 15 (4/6) Duct Joint Closure**
- A series of straight duct closures for maximum protection of duct joints for direct buried applications. Heat shrink technology is used for maximum protection. The closure is available in three different sizes and includes microduct snap-in connectors for 1, 4 or 7 microducts.
- Type: Heat shrink, straight joint
- Sealing: IP class 68
- Capacity: 1, 4, or 7

**NDE 451 25+ Duct Joint Closure**
- A series of straight duct closures for quick and easy installation without the need for heat. The closure is available in several sizes. Microduct snap-in connectors are not included.
- Type: Cold seal, re-enterable straight joint
- Sealing: IP class 68
- Capacity: 1, 4, or 7

**NDE 451 16 Duct Joint and Branch Closure**
- Closure suitable for branching as well as jointing ducts. The closure provides mechanical protection of the duct joints.
- Type: Cold seal, re-enterable branch joint
- Sealing: Mechanical protection only

**NDE 451 40 Duct Joint and Branch Kit**
- Flexible kit including materials and tools for jointing, branching and mid-span of microducts/multiducts. A vulcanizing cloth is used for sealing, and strong and flexible PVC tape provides mechanical protection. Refill kits are available. Microduct snap-in connectors are not included.
- Type: Cold seal, branch joint
- Sealing: IP class 68
- Capacity: 10 joints/kit

**SRS 1016 17+ End Caps**
- Rubber covers used for temporary sealing of unused multiducts to prevent water and dust from getting into the ducts. The caps are available in several versions for different types of ducts.
- Type: Rubber multiduct and caps

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com or Our Portfolio/Products/Cables and Interconnect.
Fiber Distribution Hubs

The Fiber Distribution Hub (FDH) is the location of passive fiber optic devices such as fiber optic splitters and/or cross connection facilities. In this section, FDHs for cable and microduct technologies are presented with associated accessories. For a complete list of products for fiber distribution, see also section Drop and Premises Networks/Fiber Access Terminals.

<table>
<thead>
<tr>
<th>2/NBD 116 200 Fiber Distribution Hub, Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: Outdoor pad or pole mount</td>
</tr>
<tr>
<td>Capacity: 64-288 end users</td>
</tr>
<tr>
<td>Dimensions: 830x987x426mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1/NBD 116 200+ Fiber Distribution Hub, Indoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: Indoor, wall mount</td>
</tr>
<tr>
<td>Capacity: 64 end-users</td>
</tr>
<tr>
<td>Dimensions: 900x1545x182mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3/NBD 116 200 Fiber Distribution Hub, Outdoor, Underground</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: Outdoor, underground installation or pole mount</td>
</tr>
<tr>
<td>Capacity: 96 end-users</td>
</tr>
<tr>
<td>Dimensions: 800x2325x250mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RDJ 901 20+ Splitter Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split ratio: 1x4 to 1x64, 2x4 to 2x64</td>
</tr>
<tr>
<td>Connector options: SC/APC, SC, LC, LC/APC</td>
</tr>
</tbody>
</table>

Drop and Premises Networks

The Drop Network connects end users to splicing and branching points, or Fiber Access Terminals (FATs) where the ducts or cables are connected to the feeder and distribution network. Drop cables or Ericsson’s Ribbonet® Air Blown Fiber (ABF) system are two options for connecting fibers from end users to the FAT. The Premises Network refers to the network within a customer’s premises such as a home or office environment. Typical products within the premises network are Fiber Termination Units Boxes (FTBs) and various types of Customer Premises Equipment (CPE), including media converters and residential gateways.

Ribbonet® Air Blown Fiber

Ericsson’s Ribbonet® Air Blown Fiber (ABF) system has been developed specifically to provide fast, efficient and flexible fiber distribution in the drop network. The system is recommended for medium to long-distance drop networks where substantial cost savings can be achieved by reducing the number of splice points and by installing fiber incrementally when needed. The technology also enables future expansion of the network without costly additional civil works. The Ribbonet® system, consisting of ducts forming the infrastructure into which the fiber units are blown, can be used outdoors, indoors and underground, as well as in aerial applications. The Ribbonet® system consists of Enhanced Performance Fiber Units (EPFUs), ducts, duct joints and accessories and an Ericsson patented lightweight air blowing tool.

<table>
<thead>
<tr>
<th>NTM 502+ Pre-connected Air Blown Fiber, EPFU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Types: Discrete fibers 1, 2, 4 fibers</td>
</tr>
<tr>
<td>Connector Options: SC, SC/APC, LC, LC/APC, ST, MT-RJ</td>
</tr>
<tr>
<td>Standard lengths: 30, 50, 70, 100, 150, 200, 250, 300, 350, 400, 500,...1000m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTM 502+ Air Blown Fiber, EPFU, in pan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Types: Discrete fibers 1, 2, 4 fibers</td>
</tr>
<tr>
<td>Connector Options: Singlemode G652D, G657B, Multimode 50μm OM2, OM3</td>
</tr>
<tr>
<td>Standard lengths: 2000, 4000, 6000m</td>
</tr>
</tbody>
</table>

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Fiberconnect.
Microducts and Multiducts for Air Blown Fiber

MPB 302 4+ and MPB 302 3+ Protected Microducts, direct-buried, dielectric or metallic moisture barrier
Ducts composed of 5/3.5mm microducts with a heavy-duty HDPE sheath that enables direct buried installation. The ducts are available dielectric or with a moisture barrier of aluminum foil to prevent water diffusion when permanently submersed. The microducts have a solid, low-friction inner surface coating for best installation performance.

Type: Direct buried installation, dielectric or metallic moisture barrier
Dimensions, microducts: Ø5/3.5mm
Capacity: 1, 2, 4, 7, 12, 19, 24-way

Ducts composed of 5/3.5mm microducts. The ducts are designed for installation in existing pipes or cable shafts. To prevent water diffusion when permanently submersed, a moisture barrier of aluminum foil is wrapped around the microducts. The microducts have a solid, low-friction inner surface coating for best installation performance.

Type: Installation in existing pipes, metallic moisture barrier
Dimensions, microducts: Ø5/3.5mm
Capacity: 1, 2, 4, 7, 12, 19, 24-way

Microducts with a sheath made of halogen-free, flame-retardant material with High Grade or UL Riser classification. The microducts have a solid, low-friction inner surface coating for best installation performance. There is also a single microduct available with an extra protection sheath for mounting directly onto walls with cable clamps.

Type: Indoor Installation, High Grade or UL Riser
Dimensions, microducts: Ø5/3.5mm
Capacity: 1, 2, 4, 7, 12, 19, 24-way

Microducts with a sheath made of halogen-free, flame-retardant material with Standard Grade classification for installations with lower fire requirements.

Type: Indoor Installation, Standard Grade
Dimensions, microducts: Ø5/3.5mm
Capacity: 1, 2, 4, 7, 12, 19, 24-way

Microducts for aerial installation on poles that are self-supporting, non-metallic and lightweight to ensure quick and easy installation. The tubes include a stabilized sheath to resist the aging effects of UV radiation. The ducts are part of the Ericsson Aerial Air Blown Fiber (ABF) System and include both 5mm and 10mm ducts.

Type: Aerial installation
Dimensions, microducts: Ø5/3.5mm, 10/8mm
Capacity: 1, 4, 12, 8+2*, 9+1*-way

* Refers to number of 10/8mm microducts

Microduct snap-in connectors for quick and easy splicing of microducts. The body is transparent for easy fault location during installation.

Type: Straight connector
Dimensions, microducts: Ø5/3.5mm

Microduct snap-in end stop connectors for permanent or temporarily sealing of unused microducts to prevent water and dust from getting into the duct. The body is transparent for easy fault location during installation.

Type: End stop
Dimensions, microducts: Ø5/3.5mm

End caps for microducts to prevent dirt and moisture entering the tubes. The end cap also locks the installed fiber to prevent it from moving in the tube. End caps should be used for all open ends in microduct installations. The end cap is made of rubber and has a slit that allows the fiber unit to pass through.

Type: End cap with strain relief
Dimensions, microducts: Ø5/3.5mm

Duct Joints and Other Duct Equipment

Successfully installing a system for air blown fiber also requires components for splicing microducts, as well as protective closures for duct joining and branching. All underground joining and branching products for the Ribbonet * system are IP class 68 watertight.

Microduct snap-in connectors for quick and easy splicing of microducts. The body is transparent for easy fault location during installation.

Type: Gas block straight connector
Dimensions, microducts: 5/3.5mm

Microduct snap-in connectors normally used between indoor and outdoor environments to prevent air flow that may result in condensed water getting into ducts. After cable installation, the connector can be gas sealed by turning a ring on the body, which is transparent for easy fault location during installation.

Type: Gas block straight connector
Dimensions, microducts: 5/3.5mm

Microduct snap-in connectors for permanent or temporarily sealing of unused microducts to prevent water and dust from getting into the duct. The body is transparent for easy fault location during installation.

Type: End stop
Dimensions, microducts: Ø5/3.5mm

End caps for microducts to prevent dirt and moisture entering the tubes. The end cap also locks the installed fiber to prevent it from moving in the tube. End caps should be used for all open ends in microduct installations. The end cap is made of rubber and has a slit that allows the fiber unit to pass through.

Type: End cap with strain relief
Dimensions, microducts: Ø5/3.5mm

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Interconnect.
NDE 451 15 (1-3) Duct Joint Closure
A series of straight duct closures for maximum protection of duct joints for direct buried applications. Heat shrink technology is used for maximum protection. The closure is available in five different sizes and includes microduct snap-in connectors for 1 to 24 microducts.

Type: Heat shrink, straight joint
Sealing: IP class 68
Capacity: 1 to 24 microducts

NDE 451 25+ Duct Joint Closure
A series of straight duct closures for quick and easy installation without the need for heat. The closure is available in several sizes. Microduct snap-in connectors are not included.

Type: Cold seal, re-enterable straight joint
Sealing: IP class 68
Capacity: 1 to 24 microducts

NDE 451 40 Duct Joint and Branch Kit
Flexible kit including materials and tools for jointing, branching and mid-span of microducts/multiducts. A vulcanizing cloth is used for sealing and strong and flexible PVC tape provides mechanical protection. Refill kits are available. Microduct snap-in connectors are not included.

Type: Cold seal, branch joint
Sealing: IP class 68
Capacity: 10 joints/kit

NDE 451 22+ Duct Branch Closure, Aerial
Easy-to-use closure, primarily intended for Ericsson’s Aerial Air Blown Fiber System (ABF), that can also be used for above ground branching application of ducts. The closure uses “gel-seal” technology for quick, safe installation.

Type: Cold seal, re-enterable branch joint for aerial applications
Sealing: IP class 67
Capacity: Up to 4x1-way branch off

SRS 106 17+ End Caps
Rubber covers used for temporarily seal of unused multiducts to avoid water and dust from getting into the ducts. The caps are available in several versions for different types of ducts.

Type: Rubber multiduct end caps

NSF 151 601 and NSF 151 701 Anchoring Clamp
Designed for ducts with a Fiber Reinforced Plastic (FRP) messenger figure-8 shaped duct assembly. The 701 can also be mounted directly on aerial drop ducts.

Type: Anchoring Clamp
Capacity: (601) 8-10mm FRP or (701) 6-8mm FRP or reinforced duct

NSF 151 501 Suspension Clamp
Designed for securing cable or ducts on wooden, concrete or metallic poles.

Type: Suspension Clamp
Capacity: 7-11mm FRP

NSF 151 611 Universal Pole Bracket
Designed for securing cable or ducts on wooden, concrete or metallic poles.

Type: Pole Bracket
Fiber Access Terminals

Fiber Access Terminals (FATs) are primarily designed for Ribbonet® Air Blown Fiber installations and for changeover from fibers emerging from microducts or drop cables to all types of fiber optic distribution cables. The FATs consist of jointing cabinets and joint closures that are designed for easy access and good protection of fibers. Products for direct splicing of distribution and drop cabling sections as well as closure with connection panels are available.

NCD 518 8002 FAT Fiber Jointing Cabinet
Small sized cabinet intended for fiber splicing and termination of up to 48 microducts (subscriptions) or drop cables. The supplied fiber organizers can typically handle up to 96 fibers.

NCD 518 8004/2, 3 FAT Fiber Jointing Cabinet
Medium-sized cabinet designed for fiber splicing and termination of up to 96 microducts or drop cables. Two models of cabinet are available with different types of fiber organizers for various applications. The organizers typically handle up to 192 fibers.

NCD 518 8009 FAT Fiber Jointing Cabinet
Large cabinet suitable for fiber splicing and termination of up to 192 microducts or drop cables. The supplied fiber organizers can typically handle up to 384 fibers.

1/NCD507200 and 2/NCD507200 Fiber Access Terminal, Indoor or outdoor
FATS for indoor or outdoor applications with up to 24 end-user connections in the drop network. It can handle air-blown fiber in microducts, micro cables as well as drop cables and other fiber optic cables. It can also be used as a fiber optic splice box for various applications.

NCD 516 01+ FAT Fiber Jointing Cabinet
Outdoor street cabinets designed for blown fiber or cable splicing. The cabinet is made of hot-galvanized steel as a basic protection against corrosion, and has a painted ground base. The visible part of the outer shelter is available unpainted or green for lowest visual impact.

NCD 507 1001 Fiber/Duct Joint Closure, Aerial
Fiber joint closure optimized for Ericsson’s Aerial Air Blown Fiber (ABF) System for FTTx. The closure can also be used for general purpose above-ground fiber splicing applications.

NCD 504+ Fiber/Duct Joint Closure
Plastic joint closure for outdoor, direct buried installations. It has a capacity of up to 24 microducts and 2 standard/micro cables. An extension ring for additional entrances is available. The fiber organizers also cater for fused fiber splitters for PON network applications. The closure can also be used in the Micronet system.

NCD 506 5050 Fiber/Duct Joint Closure
Acid-proof, stainless steel joint closure suitable for outdoor, direct buried installations. With a capacity of up to 48 microducts and three cable inlets, it is a good alternative to larger above-ground jointing cabinets. Generously-sized fiber organizers also cater for fused fiber splitters for PON network applications. The closure can also be used in the Micronet system.

NCD 502 6001+ Fiber/Duct Joint Closure
Plastic joint closure for wall mounting, suitable for outdoor, above-ground, protected areas or for indoor use. The closure can house smaller to medium fiber counts. It has two central cable inlets for incoming cables and 20 additional smaller inlets distributing up to 24 microducts or drop cables. All inlets are equipped with flexible rubber gaskets.

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Interfaces.
Installation Tools and Accessories

LTT 179 2000 Air Blown Fiber (ABF) Installation Tool
This unique, easy-to-use lightweight tool has been designed for optimal performance when installing Ericsson's EPFUs. The tool is delivered with a case and all necessary accessories, including two batteries, a charger and calibration tools.

- Type: Air blown fiber (ABF) installation
- Supported products: Ericsson 1-8 fiber EPFU 3-8mm microducts
- Capacity: ≤ 100m/min

NTM 502 06+ Blowing Beads
Beads that can be mounted on the tip of the air blown fiber unit for optimal blowing. This is recommended for long installation distances with many duct connectors or sharp bends. The beads come in two different sizes to suit the different EPFUs.

- Type: Blowing bead for EPFU

NTM 502 07 Cleaning Sponges
Cleaning sponges are used when cleaning dust or moisture from a microduct. The sponge is simply blown through the microduct by the air pressure from the installation tool.

- Type: Cleaning sponge for 5/3.5mm ducts

LDK 195 02 Duct Sheath Cutter
Used for quick and easy removal of any sheath from multiducts, this is an excellent tool for performing mid-span access on ducts.

- Type: Sheath cutter
- Capacity: 1-24-way Ribbonet®, 1-7-way Micronet

LDK 195 01 Double Sheath Cutter
Cutter to use when dismantling the outer sheath of a double-sheathed HDPE multiduct (direct buried).

- Type: Outer sheath cutter

LDK 195 01 Single Sheath Cutter
A small and handy tool primarily for removing single-sheathed ducts.

- Type: Single sheath cutter

LDK 19603 Micro Cable Sheath Cutter
Used for removal of the sheath on micro cables. The tool is delivered with three straight and one round blade. Cutting depth is adjustable.

- Type: Micro cable sheath cutter

LDK 208 03 Microduct Cutter
Provides a clean and straight cut necessary to perform a smooth duct splice prior to the mounting of microduct snap-in connectors.

- Type: Microduct cutter

LDK 302 04 Stripping Tool for EPFU and CFU
Used for removal of the acrylate coating on EPFU air blown fiber units or compact fiber units in aerial micro cables.

- Type: EPFU, CFU stripper
Drop Cables
Designed for quick and easy installation, Ericsson Drop Cables connect end users in FTTx networks to a nearby Fiber Access Terminal. Drop cables are usually a good choice for shorter distances and where there is easy access for the cable installation. To facilitate installation and minimize attenuation when cable is installed around sharp corners, all Ericsson drop cables are based on extra bend resistant G657A2 fiber. The fiber is compatible with standard G652D fiber used in feeder and distribution cables.

TOL 406 3006 and TOL 406 3007 GNGQBDU Drop Cable, Indoor or In/Outdoor
- **Type:** Direct Installation
- **Capacity:** 1-4 fibers
- **Diameter:** 4.8mm to be used with cable clamps
- **Fiber Type:** G657A2

TOL 405 3005+ GNGQBDU Drop Cable, Indoor
- **Type:** Halogen-free, flame-retardant drop cable with loose tube design for FTTx applications. The cable is used for both vertical (riser) and horizontal installations in buildings. To facilitate installation, G657B extra high bend-resistant fiber is used.
- **Type:** Halogen-free, flame-retardant
- **Capacity:** 1-12 fibers
- **Diameter:** 3.95mm
- **Fiber Type:** G657B (G652D compatible)

Drop Cable, Indoor
- **Type:** Halogen-free, flame-retardant drop cable with loose tube design for quick and easy splicing and fitting of connectors. The cable is designed with G657B extra high bend-resistant fiber and a robust design to facilitate mounting with brackets directly on the wall. The white cable is for indoor use and the black for both in/outdoor.
- **Type:** Halogen-free, flame-retardant
- **Capacity:** 1 fiber
- **Diameter:** 2.8mm
- **Fiber Type:** G657A2 (G652D compatible)

TOL 406 9001 GNGQBDU Drop Cable, Outdoor
- **Type:** Duct or direct-buried, halogen-free drop cable for outdoor installation in ducts or direct burial. A perfect cable to use in last drop to FSU. Two FRP-rod guarantee highest crush performance.
- **Type:** Duct or direct-buried, halogen-free
- **Capacity:** 1-12 fibers
- **Diameter:** 6.1x3.3mm
- **Fiber Type:** G657A2
Fiber Termination Boxes and O/E Conversion

Ericsson Fiber Termination Boxes (FTBs) and O/E conversion units are used at end-user premises, such as homes and offices and provide easy-to-install equipment with good fiber protection in esthetic but discrete designs.

Fiber Termination Box NEG 203 100

FTB to be used as a multi-purpose fiber demarcation point for FTTH and FTTD applications, for a flexible and truly future-proof solution. At any time, the adapter plate can be replaced with a miniature media converter module, transforming the passive wall outlet into an active fiber optic media converter. An internal tray with a snap-on lid protects excess fibers and a multi connector adapter plate enables a capacity of 1-6 fiber optic connectors.

**Type:** FTTH/FTTD Fiber Optic Termination Box, Indoor use
**Dimensions:** 120x100x36mm
**Capacity:** 1-3xSC, 1-6xLC

Fiber Optic Converter OPW 120

The OPW 120 is a universal fiber optic media converter for FTTH and FTTD applications. With its unique design and advanced features, the OPW 120 provides a truly future-proof solution for all Ethernet-based broadband networks. Completely plug and play, the OPW 120 requires no configuration by the user to get it up and running.

**Type:** Media converter with cover 100BaseBX to 100BaseTX, single fiber
**Dimensions:** 120x100x36mm (exterior cover)
**Capacity:** 100Mbps, 20 km reach (typical)

Fiber Termination Box KDU 137 468/1

FTB designed for termination of fibers outside premises in FTTH applications using fixed trunk trunk. The casing contains snap-in holders for protective casing (accessory) mounted in the cable core. Maximum capacity is 16 tubes in the cable core. All dielectric. DryTech™ filling compound is used resulting in a cost-effective solution. The cable is all dielectric, DryTech™ filling compound is used in the cable core.

**Type:** FTTH Fiber Optic Termination Box, Outdoor use
**Dimensions:** 85x65x20mm (media converter module)
**Capacity:** 1-3xSC, 1-6xLC

Fiber Termination Box 5/NEG 203 200

FTB designed for termination of fibers outside premises in FTTH applications. The box terminates and protects fiber or duct connections for the final drop cabling. It can also be used as a multi-purpose outdoor fiber optic wall outlet. The box is suitable for both air blown fiber installations and drop cables.

**Type:** FTTH Fiber Optic Termination Box, Outdoor use
**Dimensions:** 190x130x45mm
**Sealing:** IP class 54
**Capacity:** 4xSC, 4xLC

Outdoor Installations

Cables for Duct Installation

The range of cables for duct installation includes all our five basic designs: concentric core, slotted core, slotted core ribbon, DryTech™ and ribbon in loose tubes.

The duct installation cables include both metallic and dielectric cables with fiber counts of up to several hundred fibers. The fibers can be of different types and different types of fiber can be mixed in the same cable. The duct cables can be supplied with aluminum foil as a moisture barrier. Aramid or glass yarn can be added for extra axial pulling strength. Glass yarn or polyamide can be used as protection against rodents.

Fiber Transport Network

Fiber optic cables for indoor and outdoor applications

The fiber transport site related offering incorporates a range of fiber optic cables, joint closures and accessories for all kinds of network and interconnect applications. All products have been designed and tested for optimal installation functionality, as well as resistance to fire, chemicals and environmental damage.
For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Interconnect

**4-fiber ribbon cable using slotted core design.** The design reduces installation costs and gives superior fiber protection. The cable is dielectric, making it suitable for installation where there is electrical interference.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentric</td>
<td>DryTech™, aluminum</td>
<td>2-144 fibers</td>
</tr>
</tbody>
</table>

**8-fiber ribbon cable using slotted core design.** The design allows high packing density that reduces installation costs and gives superior fiber protection. Water blocking filling compound in the TOL 401 1002 cable and dry water-blocking tape in the TOL 410 1020 cable prevents water penetration along the cables. The cable is dielectric, making it suitable for installation where there is electrical interference.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentric</td>
<td>DryTech™, aramide</td>
<td>2-144 fibers</td>
</tr>
</tbody>
</table>

**Loose tube cable with concentric core design and aluminum foil, which provides an excellent moisture barrier, making the cable suitable for humid environments.** DryTech™ filling compound is used in the cable core. Maximum capacity is 16 tubes with 12 fibers in each.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentric</td>
<td>Aluminum barrier, DryTech™</td>
<td>2-192 fibers</td>
</tr>
</tbody>
</table>

**Loose tube cable with concentric core design and aramid yarn for extra pulling strength.** The cable is all dielectric. DryTech™ filling compound is used in the cable core. Maximum capacity is 16 tubes with 12 fibers in each.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentric</td>
<td>Aluminum, DryTech™, aramide reinforced</td>
<td>2-192 fibers</td>
</tr>
</tbody>
</table>

**Loose tube cable with concentric core design, resulting in a cost-effective solution.** The cable is dielectric, making it suitable for environments with a high risk of electrical interference. Maximum capacity is 12 tubes with 12 fibers in each.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentric</td>
<td>Aluminum, low weight</td>
<td>2-144 fibers</td>
</tr>
</tbody>
</table>

**Durable loose tube drop cable for outdoor installation in ducts or direct-buried.** A perfect cable to use in last drop to FSU. Two FRP-rods guarantee highest crush performance.

<table>
<thead>
<tr>
<th>Type</th>
<th>Diameter</th>
<th>Fiber Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duct or direct-buried, halogen-free</td>
<td>6.1x3.3mm</td>
<td>G657A2</td>
</tr>
</tbody>
</table>

**Loose tube cable based on a slim loose tube design with up to eight tubes per cable.** The design facilitates fiber preparation and mid-span access. This cable is suitable for long-distance, air blown installation in microducts, with an inner diameter of as little as 8mm. The cable has excellent bend performance.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose tube</td>
<td>Aluminum, dry</td>
<td>12-96 fibers</td>
</tr>
</tbody>
</table>

**Micro cable based on a slim loose tube design with up to eight tubes per cable.** The design facilitates fiber preparation and mid-span access. This cable is suitable for long-distance, air blown installation in microducts, with an inner diameter of as little as 8mm. The cable has excellent bend performance.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose tube</td>
<td>Aluminum, dry</td>
<td>12-96 fibers</td>
</tr>
</tbody>
</table>

**Durable loose tube drop cable for outdoor installation in ducts or direct-buried.** A perfect cable to use in last drop to FSU. Two FRP-rods guarantee highest crush performance.

<table>
<thead>
<tr>
<th>Type</th>
<th>Diameter</th>
<th>Fiber Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duct or direct-buried, halogen-free</td>
<td>6.1x3.3mm</td>
<td>G657A2</td>
</tr>
</tbody>
</table>

**Micro cable based on a slim loose tube design with up to eight tubes per cable.** The design facilitates fiber preparation and mid-span access. This cable is suitable for long-distance, air blown installation in microducts, with an inner diameter of as little as 8mm. The cable has excellent bend performance.

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose tube</td>
<td>Aluminum, dry</td>
<td>12-96 fibers</td>
</tr>
</tbody>
</table>
Cables for Direct Buried Installation

The range of cables for direct buried installation includes all our five basic designs: concentric core, slotted core, slotted core ribbon, DryTech™ and ribbon in loose tubes. The cables for direct buried installation are reinforced with corrugated steel tape, steel wire, or foamed thermoplastic elastomer, providing excellent mechanical protection. The range of cables includes both metallic and dielectric cables and covers fiber counts up to several hundred fibers.

**TOL 402 2023 GRCLTLV**
Loose tube cable with concentric core design, a layer of steel wire arming and a second outer sheath. The steel wire gives a heavy duty arming, enabling installation in rough terrain and operational reliability under severe conditions. DryTech™ filling compound is used in the cable core. Maximum capacity is 16 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Steel wire arming, high tensile strength
**DryTech™**
**Capacity:** 4-192 fibers
**Diameter:** 18-25mm

**TOL 402 2002 GRHLWLV**
Loose tube cable with concentric core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape provides good mechanical protection, yet the cable is still easy to install. Maximum capacity is 12 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Corrugated steel tape reinforced
**DryTech™**
**Capacity:** 4-144 fibers
**Diameter:** 17-24mm

**TOL 402 2023 GRCLWLV**
Loose tube cable with concentric core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still easy to install. DryTech™ filling compound is used in the cable core. Maximum capacity is 16 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Corrugated steel tape reinforced, DryTech™
**Capacity:** 4-192 fibers
**Diameter:** 17-24mm

**TOL 402 2011 GRCLLDV**
Loose tube cable with concentric core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments. DryTech™ filling compound is used in the cable core. Maximum capacity is 16 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Dielectric, thermoplastic cushion layer, DryTech™
**Capacity:** 4-192 fibers
**Diameter:** 18-25mm

**TOL 402 1014 GASQWQBUV**
Ribbon cable with slotted core design and corrugated steel tape protection providing superior fiber protection against rodents. Ideal for duct and direct buried installation in tunnels. The cable comes in two configurations; up to 96 fibers with 4-fiber ribbons and more than 96 fibers with 8-fiber ribbons.

**Design:** Slotted core ribbon
**Type:** Corrugated steel tape reinforced, high crush resistance
**Capacity:** 96-640 fibers

**TOL 402 1002 GASLWLV**
4-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

**Design:** Slotted core ribbon
**Type:** Corrugated steel tape reinforced
**Capacity:** 4-96 fibers

---

**GRCLLV, slim**
Slim loose tube cable with concentric core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still easy to install. DryTech™ filling compound is used in the cable core. Maximum capacity is 24 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Dielectric, thermoplastic cushion layer, DryTech™
**Capacity:** 12-288 fibers
**Diameter:** 18-25mm

**TOL 402 2019 GRHLLDV**
Loose tube cable with concentric core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments. DryTech™ filling compound is used in the cable core. Maximum capacity is 12 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Dielectric, thermoplastic cushion layer
**DryTech™**
**Capacity:** 4-144 fibers
**Diameter:** 17-24mm

**TOL 402 2025 GRCLLVW**
Loose tube cable with concentric core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape provides good mechanical protection, but the cable is still flexible enough for easy installation. DryTech™ filling compound is used in the cable core. Maximum capacity is 16 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Corrugated steel tape reinforced, DryTech™
**Capacity:** 4-192 fibers
**Diameter:** 17-24mm

**TOL 402 1002 GASLWLV**
4-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

**Design:** Slotted core ribbon
**Type:** Corrugated steel tape reinforced
**Capacity:** 4-96 fibers

---

**GRCLLDV, slim, dielectric**
Slim loose tube cable with concentric core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments. DryTech™ filling compound is used in the cable core. Maximum capacity is 24 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Dielectric, thermoplastic cushion layer, DryTech™
**Capacity:** 12-288 fibers
**Diameter:** 18-25mm

**GRHLWLV**
Loose tube cable with concentric core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape provides good mechanical protection, but the cable is still flexible enough for easy installation. Maximum capacity is 12 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Corrugated steel tape reinforced
**DryTech™**
**Capacity:** 4-144 fibers
**Diameter:** 17-24mm

---

**GASLWLV**
4-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

**Design:** Slotted core ribbon
**Type:** Corrugated steel tape reinforced
**Capacity:** 4-96 fibers

---

**GRHLLDV**
Loose tube cable with concentric core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape provides good mechanical protection, but the cable is still flexible enough for easy installation. Maximum capacity is 12 tubes with 12 fibers in each.

**Design:** Concentric core
**Type:** Corrugated steel tape reinforced
**DryTech™**
**Capacity:** 4-144 fibers
**Diameter:** 17-24mm
Cables for Aerial Installations

Self-supporting aerial fiber cables

Ericsson’s range of Fiber Optic Cables for aerial installation includes self-supporting All Dielectric Self Support (ADSS) and figure-8 types, designed for pole installation.

The cables come in different span lengths and can handle several hundred fibers. All ADSS and figure-8 cables can be supplied with extra protection against rodents (nylon sheath), or shotguns (aramid tape). Ericsson also offers a complete range of installation support material for aerial cables.

ADSS, non-metallic cable with concentric core design. This extremely slim and low-weight cable, which can be ordered with 4 to 144 fibers, is suitable for span lengths from 60-170m. It can be installed adjacent to power lines with up to 120 kV. It contains standard filling compound and utilizes aramid yarn to increase strength.

TOL 403 2003 GRHSLDV
Design: ADSS, concentric core
Type: Dielectric
Capacity: 4-144 fibers

ADSS, non-metallic cable with concentric core design that utilizes aramid yarn and a second outer sheath for an extra robust cable design. It is suitable for installation in harsh climates with high ice loads, and for span lengths of 100-250m. Like the GRHSLDV, this cable contains standard filling compound and can be ordered with 4 to 144 fibers.

TOL 403 2008 GRHSLDV
Design: ADSS, concentric core
Type: Dielectric
Capacity: 4-144 fibers, max 14.5kN

ADSS, non-metallic cable with concentric core design that utilizes aramid yarn and a second outer sheath for an extra robust cable design. It is suitable for installation in harsh climates with high ice loads, and for span lengths of 200-500m. Like the GRHSLDV, this cable contains standard filling compound and can be ordered with 4 to 144 fibers.

TOL 403 2024 GRCLCV
Design: Fig-8, concentric core
Type: DryTech™
Capacity: 4-192 fibers

8-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

TOL 402 1010 GASLWLV
Design: Slotted core ribbon
Type: Corrugated steel tape reinforced
Capacity: 8-192 fibers

4-fiber ribbon cable with slotted core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments.

TOL 402 1005 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

8-fiber ribbon cable with slotted core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments.

TOL 402 1006 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

8-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

TOL 402 1001 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

8-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

TOL 402 1004 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

8-fiber ribbon cable with slotted core design, a corrugated steel tape layer and a second outer sheath. The corrugated steel tape reinforcement provides good mechanical protection, but the cable is still flexible enough for easy installation.

TOL 402 1003 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

8-fiber ribbon cable with slotted core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments.

TOL 402 1002 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

8-fiber ribbon cable with slotted core design, a thermoplastic cushion layer and a second outer sheath. The thermoplastic cushion layer makes the non-metallic cable suitable for installation along power lines, e.g. railway embankments.

TOL 402 1005 GASLLDV
Design: Slotted core ribbon
Type: Dielectric, thermoplastic cushion layer
Capacity: 8-192 fibers

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com or Ericsson’s Portfolio/Products/Cables and Interconnect.
Joint Closures for fiber optic cables

Joint closures for optimal protection

Utilizing its broad experience in information network installation and operation, Ericsson has developed a range of cost-effective joint closures that provides the right quality in the right place.

The offering, for both indoor and outdoor installation, includes boxes optimized for virtually all conditions, and for small, medium and large fiber counts. Made in a variety of materials to suit environments ranging from simple to very demanding, the boxes are designed to join most types of fiber cables. Ericsson offers a complete line of accessories, including tool kits, protection sleeves, shrink-on hoses, mounting brackets and expansion kits, suitable for various types of installation.

NCD 504+ Fiber Joint Closure
Versatile fiber closure made of durable plastic to meet most environmental demands. The standard box can handle up to 96 single fibers or 48 ribbon sleeves, and is expandable to manage higher fiber counts and a greater number of entrances. The closure can also handle mid-span access.

Type: Underground, plastic
Sealing: IP class 68
Capacity: 96 single fiber splices or 48 ribbon fiber splices with 4 extra cassettes.
Up to 144 single splices with extension ring and 8 extra cassettes.

NCD 503+ Fiber Joint Closure
Closure made of acid-proof stainless steel to withstand the harshest environments. The standard box can handle up to 72 single fibers or 36 ribbon sleeves, and is expandable to manage higher fiber counts and a greater number of entrances. The closure can also handle mid-span access.

Type: Underground, stainless steel
Sealing: IP class 68
Capacity: 72 single fiber splices 36 ribbon fiber splices

NCD 506+ Fiber Joint Closure
Closure for higher fiber counts in harsh outdoor environments. The generous size of the fiber organizers makes installation fast and trouble free. The design is compact but easy to expand to accommodate very large fiber counts. The closure can also handle mid-span access. Several versions and accessories are available resulting in a total capacity of 144 fibers to more than 2000 fibers depending on configuration.

Type: Underground, stainless steel
Sealing: IP class 68
Capacity: ≤576 single fiber splices ≤288 ribbon fiber splices
Ericsson's range of cables for submarine installation is based on extensive experience in submarine-cable projects, including design, project management and installation. The offering comprises cables using unitube loose fiber design for depth down to 2000m.

**Submarine Installation**

**Submarine cables based on extensive experience**

All cables have steel wire armoring, in one or several layers, and a copper or stainless steel tube to provide superior mechanical and water blocking properties. The cables are resistant to tensile forces and impact caused by anchoring, recovery operations and handling.

**TOL 404 1050 GJMLTV, 10-ton SA**

Single-armed, unitube cable where moderate protection is required in submarine applications.

This design includes a hermetically sealed stainless tube (3.7mm outer diameter). Inside the tube the fibers are free to move in the thixotropic water blocking compound. The tube is protected by a polyethylene sheath, one layer of galvanized steel wires and wrapped in a layer of polypropylene yarn.

- **Design:** FIMT, single armor
- **Type:** 10 ton, ≤2000m
- **Capacity:** 1-48 fibers

**TOL 404 1051 GJMLTV, 15-ton DA**

Double-layer armored, unitube cable where high protection is required in submarine applications.

This design includes a hermetically-sealed stainless tube (3.7mm outer diameter). Inside the tube the fibers are free to move in the thixotropic water blocking compound. The tube is protected by a polyethylene sheath, two layers of galvanized steel wires and wrapped in a layer of polypropylene yarn.

- **Design:** FIMT, double armor
- **Type:** 15 ton, ≤2000m
- **Capacity:** 1-48 fibers

**TOL 404 1062 GJMLTV, 25-ton DA**

Double-layer armored, unitube cable with the same principal design as the GJMLTV, 15-ton DA above.

- **Design:** FIMT, double armor
- **Type:** 25 ton, ≤2000m
- **Capacity:** 1-48 fibers
In addition to the main topics, the document also mentions other types of submarine cables and joint closures, such as:

- **GJMLTV, 40-ton DA**
  - Design: FIMT, double armor
  - Type: 40 ton, ≤2000m
  - Capacity: 1-48 fibers

- **GJMLTV, 5-ton SAL**
  - Design: Slotted core ribbon, single armor
  - Type: 10 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 15-ton SAH**
  - Design: Slotted core ribbon, single armor
  - Type: 15 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 20-ton DA**
  - Design: Slotted core ribbon, double armor
  - Type: 20 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 10-ton SA**
  - Design: Slotted core ribbon, single armor
  - Type: 10 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 40-ton DAH**
  - Design: Slotted core ribbon, double armor
  - Type: 40 ton, ≤2000m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 20-ton RA**
  - Design: Slotted core ribbon, triple armor
  - Type: 20 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 5-ton SAL**
  - Design: Slotted core ribbon, single armor
  - Type: 5 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)

- **GJMLTV, 10-ton SA**
  - Design: Slotted core ribbon, single armor
  - Type: 10 ton, ≤500m
  - Capacity: 4-96 fibers (4-f ribbon)
  - 8-192 fibers (8-f ribbon)
Local Site Cabling
Cables for Indoor Installation

The range of indoor installation cables is recommended for use in telecommunication stations for interconnection between the optical line interface and the optical distribution frames. The indoor cables are also suitable for use in LAN networks or other types of data networks. All indoor cables are halogen-free and flame-retardant, and consequently generate no corrosive gases during combustion. All cables are also completely dielectric. The fibers in the cable can be of different types and different fiber types can be mixed in the same cable.

TOL 405 3001/1 GNGQBDU, 1-Fiber
Simplex, buffered patch cord cable, non-jelly filled with an outer diameter of 2.0mm as standard. It can be delivered pre-terminated with a variety of connector types. The cable has low shrinkage of less than 0.5% for reliable high performance.

TOL 405 3001/2 GNGQBDU, 2-fiber
Two-fiber, tight-buffered duplex patch cord cable, non-jelly filled and aramid reinforced. The cable has a figure-8 design with single fibers laid in parallel, which makes it easy to split into two simplex patch cables.

TOL 405 3006 GNGQBDU, 2-fiber
Two fiber, tight-buffered duplex patch cord cable, non-jelly filled and aramid reinforced. Two single fiber cables are enclosed in an outer sheath forming a flexible and dry cable with an outer dimension of 4.8x2.8mm. It can be delivered pre-terminated with a variety of connector types.

TOL 405 3013 GNHQBDUV
Distribution cable suitable for longer distances and humid areas. A concentric core design makes this tight-buffered fiber cable cost-effective and slim. Tape is used instead of jelly as longitudinal water blocking, making the jointing procedure clean and easy.

TOL 405 3018 GNGQBDU, 4-fiber
Break-out cable where simplex cables are put into one cable, with aramid yarn as central strength member. The construction results in a robust cable combined with high flexibility. The cable can be delivered pre-terminated with a variety of connector types.
Cables for Indoor/Outdoor Installation

The cables for combined indoor/outdoor installation are all halogen-free and flame-retardant; consequently, no corrosive gases are generated during combustion. The cables cover fiber counts that meet common building practices within the telecom industry. The fibers can be of different types and different fiber types can be mixed in the same cable. The indoor/outdoor cables are often used between a pre-terminated indoor optical distribution frame and an outdoor joint closure. The cable sheaths should be protected from direct sunlight and moisture, and good drainage is recommended for outdoor installation in short lengths.

TOL 406 3006 and TOL 406 3007 GNGQBDU Drop Cable, Indoor or In/Outdoor

Halogen-free, flame-retardant drop cables with tight secondary coated fiber for quick and easy splicing and fitting of connectors. The cable is designed with G657.B extra high bend-resistant fiber and a robust design to facilitate mounting with brackets directly on the wall. The white cable is for indoor use and the black for both in/outdoor.

TOL 406 3003 GRHQBDUV

Loose tube cable with concentric core design, resulting in a cost-effective solution. Each tube contains up to 12 fibers and the cable contains up to 16 tubes. Dry water blocking makes the cable jointing procedure clean and easy.

TOL 406 3004 GNGQBDV

Fiber optic cable designed for FTTH applications in both indoor and outdoor environments. The cable is flame resistant. Water blocking tape guarantees that no water can pass through the cable and the outer sheath is specially designed for highest protection in outdoor environments. The cable is suitable for pre-terminated delivery and has extremely good bending performance due to the use of bend-resistant G657.B fiber.

TOL 406 1001 GASQBDUV

Ribbon cables with slotted core design, which reduces installation costs and ensures superior fiber protection. Each of the six slots contains 1-2 ribbons of the 4-fiber ribbon type. The cable is dielectric, and very slim and flexible, making it very versatile. Dry water blocking makes the cable jointing procedure clean and easy. The cable is offered in two variants: standard and extra slim.

TOL 405 1014 GASQBDUV

Ribbon cables with slotted core design which enables a cable design with reduced installation cost and superior fiber protection. Each of the six slots contains 1-2 ribbons of the 4-fiber ribbon type. The cable is dielectric, very slim and flexible, making it very versatile. Dry water blocking makes the cable jointing procedure clean and easy. The cable is offered in two variants: standard and extra slim.

TOL 405 1024 GASQBDUV

4 or 8-fiber ribbon cable with slotted core design providing superior fiber protection and high fiber count. Each of the slots contains ribbons of 4 or 8 fibers. The 8-fiber ribbon can easily be split into two 4-fiber ribbons. The versatility of the cable and the inherent benefits of ribbon fiber technology reduce installation costs. The cable is provided in two configurations: ≤96 fibers with 4-fiber ribbons and >96 fibers with 8-fiber ribbons.

TOL 405 9009 GNGQBDUV, high temperature performance

Fiber optic cable designed for FTTH applications in both indoor and outdoor environments. This cable has extremely good heat resistance and operates -40 to +95(degrees)C. The cable is flame resistant so it can be installed indoors at the same time the outer sheath is robust enough to cope with outdoor environments. It is suitable for pre-terminated delivery.

TOL 406 3038 GNGQBDU

Fiber optic cable designed for FTTH applications in both indoor and outdoor environment. Water blocking aramid yarns guarantees that no water can pass through the cable and the outer sheath is specially designed for highest protection in outdoor environments. It is suitable for pre-terminated delivery.

For more detailed information and data sheets, please visit the Ericsson Product Catalog at www.ericsson.com see Our Portfolio/Products/Cables and Interconnect.
Abbreviations

ADSS  All Dielectric Self Support
ABF   Air Blown Fiber
CPE   Customer Premises Equipment
EPFU  Enhanced Performance Fiber Unit
FAT   Fiber Access Terminal
FDH   Fiber Distribution Hub
FMT   Fiber in Metallic Tube
FRP   Fiber Reinforced Plastic
FTB   Fiber Termination Box
FTTA  Fiber-to-the-Antenna
FTTB  Fiber-to-the-Building
FTTC  Fiber-to-the-Curb
FTTH  Fiber-to-the-Home
FTTx  For generic use in fiber networks
LAN   Local Area Network
NTTS  Nominal Transient Tensile Strength
MMS   Multifiber Management System
ODF   Optical Distribution Frames
O/E   Optical/Electrical
PON   Passive Optical Network, also called P2MP
P2P   Point-to-point
P2MP  Point-to-multipoint
RoHS  Restriction of Hazardous Substance
Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership.

Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.