



Optical Fiber Cables

Range Production










and Testing








FO Cables Range

Type	Size	Specification	Installation
Traditional Multi Loose Tube	Up to 864 fibres	<ul style="list-style-type: none"> Jelly filled or dry core Single or double layer stranding Glass or Aramide yarn reinforcement Steel or Aluminum light armouring Electrowelded steel or Aluminum heavy armoure Dielectric anti-ballistic or anti-rodent protection HDPE, LDPE, FRNC, PVC, Polyamide jacket 	<ul style="list-style-type: none"> Outdoor - in conduit or direct buried Outdoor – ADSS (aerial dielectric self supporting) Outdoor – ADSS+ (aerial self supporting antiballistic) Indoor – according to UE305/11 CPR Indoor – flame resistant EN60331
Microcables Multi Loose Tube	Up to 864 fibres	<ul style="list-style-type: none"> Light weight and reduced diameter HDPE or Polyamide jacket or FRNC jacket 	<ul style="list-style-type: none"> Outdoor - in PE microtubes using "blowing" installation technique Indoor – according to UE305/11 CPR
Traditional and Micro Single Loose Tube	Up to 36 fibres	<ul style="list-style-type: none"> Glass or Aramide yarn reinforcement Steel or Aluminum light armouring HDPE, LDPE, FRNC, PVC, Polyamide jacket 	<ul style="list-style-type: none"> Outdoor - in conduit Outdoor – in building facades Indoor – according to UE305/11 CPR
Tight and Semi-tight Micromodule Minibundle	Up to 48 fibres	<ul style="list-style-type: none"> Compact cables - High fiber density Improved handling Easy access to fiber 	<ul style="list-style-type: none"> Outdoor or indoor FTTH connections

OF Cables Range

Type	DWG	Cable	Designation
Traditional Multi Loose Tube ADSS			A-DQ2Y(ZN)2Y 4 to 864 E9/125 TOL6D 4 to 864 SM G.657A1 T/KE-S TOL6D 4 to 864 SM G.657A1 T/EKE
Traditional Multi Loose Tube Heavy steel armoure			A-DQ2Y(ZN)B2Y 4 to 864 E9/125 A-DQH(ZN)BH 4 to 864 E9/125 TOL8D 4 to 64 SM G.652D T/EKH6E TOL8D 4 to 64 SM G.652D T/MKH6M
Microcables Multi Loose Tube			A-DQ(ZN)2Y 4 to 864 E9/125 TOL6D 4 to 864 SM G.657A1 T/E I-DQ(ZN)H 4 to 864 E9/125 TOL6D 4 to 864 SM G.657A1 T/M
Microcables Single Loose Tube			A-DQ(ZN)(SR)2Y 4 to 36 E9/125 TOL1 4 to 36 SM G.657A1 T/KH9E I-DQ(ZN)BH 4 to 36 E9/125 TOL1 4 to 36 SM G.657A1 T/M
Tight and Semi-tight Micromodule Minibundle			I-V(ZN)H 4 to 36 E9/125 TOTD 4 to 48 SM G.657A1 /KM TOTD 4 to 48 SM G.657A2 /KM

Optical Fibers Range

Type	Specification	Brand	Product Name
Single Mode	ITU-T G.657.A1 ITU-T G.652.D		SMF-28® Ultra Optical Fiber SMF-28® Ultra 200 Optical Fiber SMF-28e+® Optical Fiber SMF-28e+® LL Optical Fiber
Non Zero Dispersion	ITU-T G.655.D		LEAF® Optical Fiber
Cut-off Shifted Long Haul	ITU-T G.654.E ITU-T G.654.C		TXF® Optical fiber SMF-28®ULL Optical fiber
SingleMode Bend Insensitive	ITU-T G.657.A2/B2		ClearCurve Single Mode Optical Fiber
MultiMode Bend Insensitive	IEC 60793-2-10 A1-OM2 IEC 60793-2-10 A1-OM3 IEC 60793-2-10 A1-OM4		ClearCurve® Multi Mode Optical Fiber

Production capacity - Steps

Capability and capacity Production steps

UV coloring and buffering

>2.000.000 fkm/year

**Secondary coating
Loose and tight buffer**

>2.000.000 fkm/year

Stranding S/Z technique

>2.000.000 fkm/year

Jacketing

>2.000.000 fkm/year

Production Lines

UV coloring, ring-marking and tight buffering



Production Lines

Secondary coating

Loose, tight, semi-tight,
micromodule, microbundle



Production Lines

Stranding SZ technique

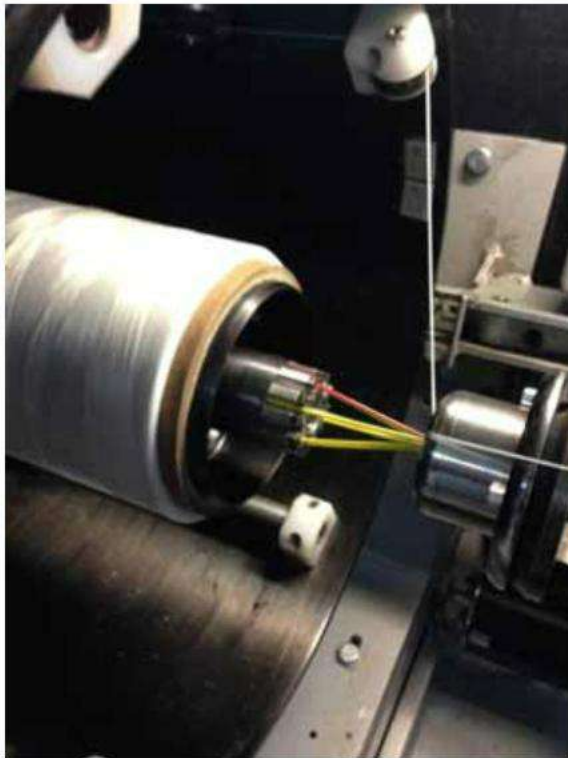
Glass/Aramide yarn armouring

Tape wrapping/armouring



Production Lines

High-speed SZ stranding for microcables



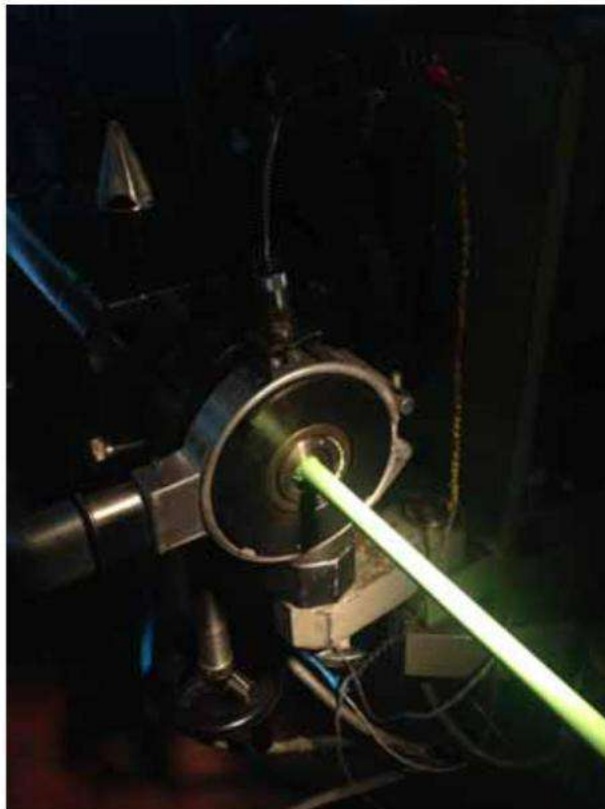
Production Lines

Jacketing and armouring line



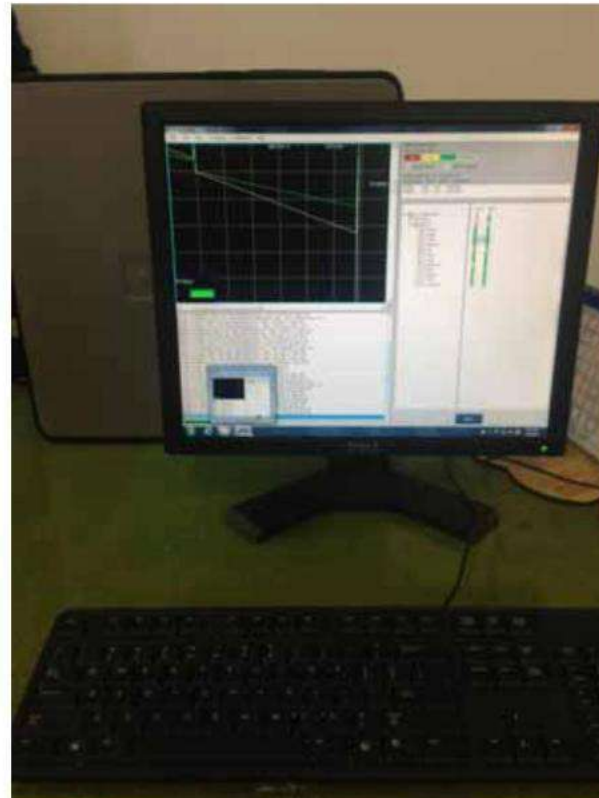
Production Lines

Jacketing line with steel/Aluminum tape



Test equipments

Transmission characteristics to IEC 60793-60794 and EIA/TIA



Test Equipments

Mechanical characteristics to IEC 60794 and EIA/TIA



Test Equipment

Environmental characteristics to IEC 60794 and EIA/TIA



Test Equipment

Characterization test on raw materials

Mechanical, Thermo-analysis, FT-IR, Calorimetry, Flammability,
Accelerated aging, UV resistance ...



Work In Progress ...

