



כנס יועצי מערכות תקשורת

22-24 אוקטובר - מלון דניאל ים המלח

Tuvia Liberman

CTO Teldor Cables & Systems Ltd.

- SII – 212, 802 (chair)
- IEC – SC 86A (HoD), SC86A/WG1, SC86A/WG3
- ISO/IEC – JTC1/SC25 (HoD), WG3
- Liaison Officer

תקינה וכבילה למערכות אופטיות - היום ומחר

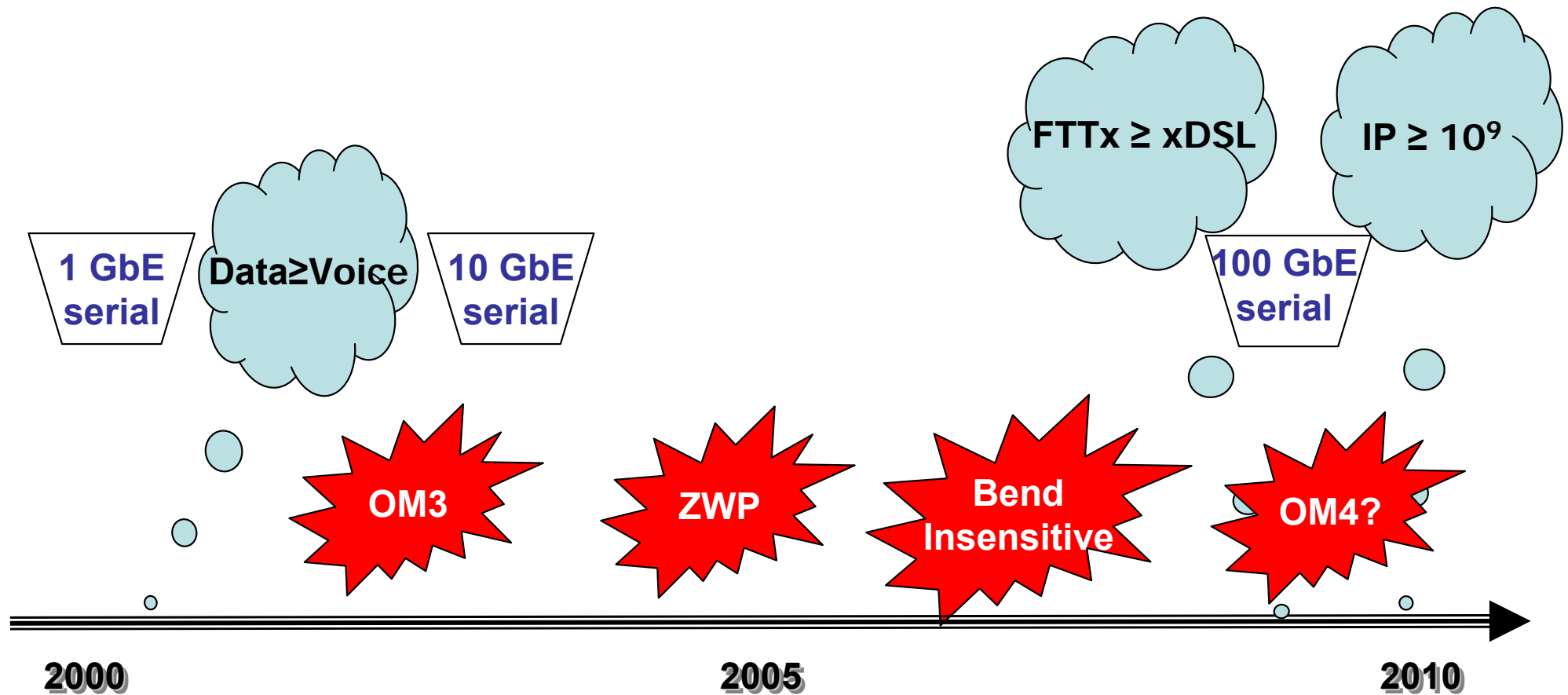


3 Forecasting Sources for Wire & Cable: Technology, Business and Standards

- ✚ Constant interaction and dynamic flux
- ✚ Uncertainty greatly reduced by cross-analysis
- ✚ Must be willing to invest resources in all 3
- ✚ Data > Information > Knowledge > Decision-Making > Profit
- ✚ Teldor – strategically positioned to update and react



Some Noteworthy Milestones



Influential Advances in Technology

- Nanotechnology: fibers, compounds
- Miniaturization: cables, connectors, MEMS
- Optics: FEC, DWDM spacing, disp. comp
- Highest concentration of R&D/IP in “Last Mile”
- POF

In the Business Environment



- Flat, survival mode, very little M&A activity
- Greatest amount of activity in Last Mile
- Governmental initiatives – Residential/FTTH
- Business Development models – price driven at low end, “future-proof” at high end

The ***HOT*** Issues in International Standards



Where is all the action?

An Overview of International FO Standards Organizations

Applications



Cabling Systems



Components



Applications

• 40/100 GbE

(Data Centers/SANs)

• FCoE (Fiber Channel Over Ethernet)

(Data Centers/SANs)

• xPON

(FTTH/Access Networks)



Cabling Systems

✚ Data Centers

(ISO/IEC 24764)

✚ Residential

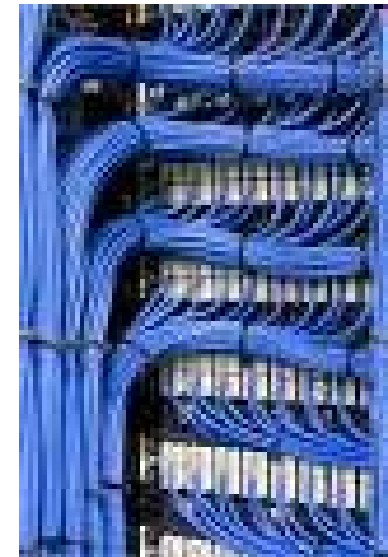
(ISO/IEC 15018)

✚ Industrial Premises

(ISO/IEC 24702)

✚ Premises Cabling Test Standard

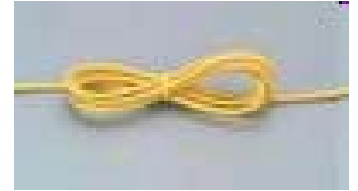
(ISO/IEC 14763-3)



Components

✚ Bend Insensitive SM Fibers (for FTTH)

(ITU-T G.657a/b/?c?, IEC 60793-2-50 B.6)



✚ OM4 MM Fibers (for Data Centers)

(IEC 60793-2-10)

✚ Bend Insensitive MM Fibers (for FTTH)

(IEC 60793-2-10)

✚ Cables for Blown Installation (for Last Mile)

(IEC 60794-5-10)

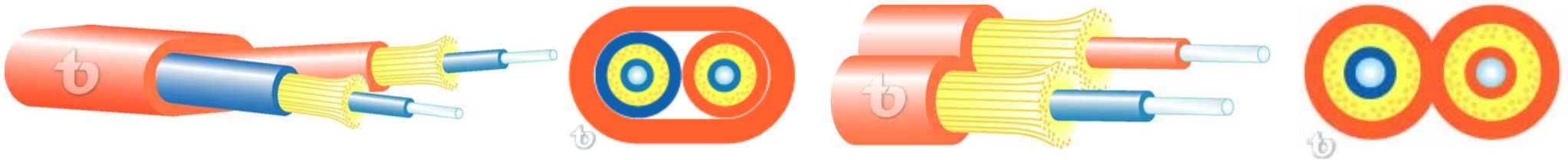
Analysis

- ✚ Technology (LAST MILE, FTTH, Data Centers)
- ✚ Business (LAST MILE, FTTH, Data Centers)
- ✚ Applications (FTTH, Data Centers/SANs)
- ✚ Cabling Systems
(LAST MILE, Data Centers, Residential)
- ✚ Components (LAST MILE, FTTH, Data Centers)

Cable Designs to Meet Present and Future Demands

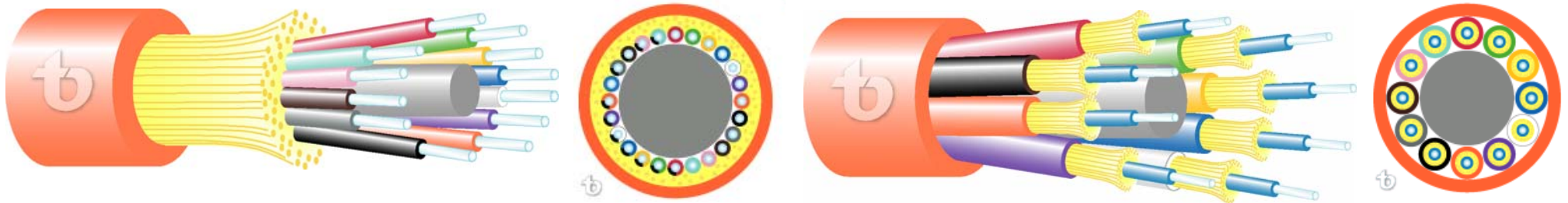
- ✚ Teldor optimally positioned to meet demands
- ✚ Fiber Expertise enables use of **any fiber in any design**
- ✚ Entire production range from patch cords to Long-Distance OSP, ADSS, OPGW.....
- ✚ ISO 9001:2000, RoHS Compliant, 3rd Party Lab certified
- ✚ Rapid R&D, Custom Design, Private Label, COTS
- ✚ Unique material engineering skills
- ✚ Consistently ready for new technologies and standards

Cable Designs to Meet Present and Future Demands Work Area Cables / Patch Cords



- ✚ All Fiber Types available
- ✚ Full Range of Jacket and Tight-buffer Materials
- ✚ Full Range of Flammability Ratings (60332-3, OFNR)
- ✚ Fully RoHS Compliant, Test Report for each reel
- ✚ Suitable for all connector types from LC and MTRJ up

Cable Designs to Meet Present and Future Demands Indoor Premises Cables



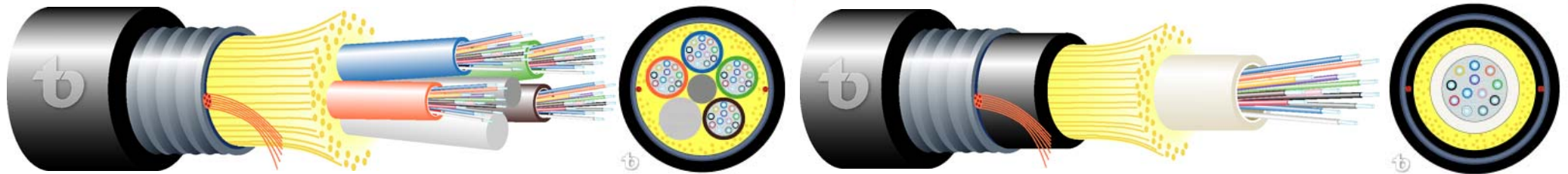
- ✚ All Fiber Types available
- ✚ Full Range of Jacket and Tight-buffer Materials
- ✚ Full Range of Flammability Ratings (60332-3, OFNR)
- ✚ Fully RoHS Compliant, Test Report for each reel
- ✚ Suitable for all connector types from LC and MTRJ up
- ✚ 2 – 72 Fibers in Breakout or Multi-tight designs

Cable Designs to Meet Present and Future Demands Indoor/Outdoor Premises Cables



- ✚ All Fiber Types available
- ✚ Full Range of Jacket and Tight-buffer Materials
- ✚ Full Range of Flammability Ratings (60332-3, OFNR)
- ✚ Fully RoHS Compliant, Test Report for each reel
- ✚ Full Range of Armoring Options
- ✚ Fully waterblocked, UV resistant, extreme temp. ranges

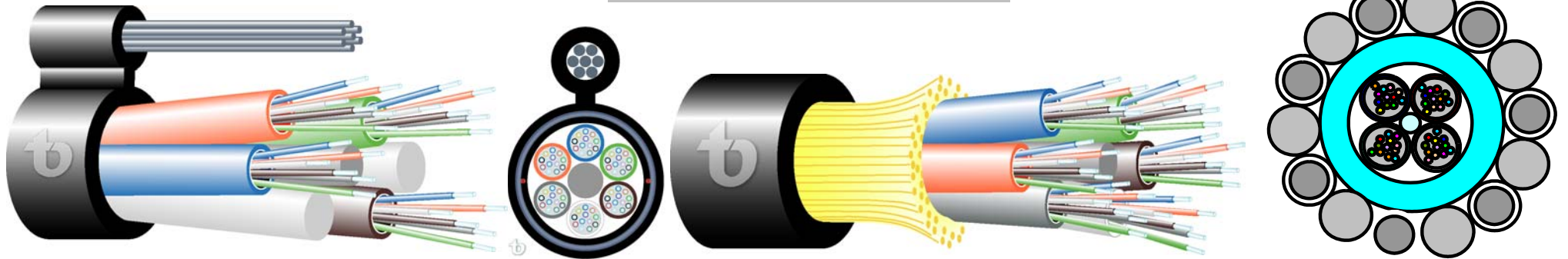
Cable Designs to Meet Present and Future Demands Outdoor Premises Cables



- ✚ All Fiber Types available,
- ✚ Up to 24 fibers per tube, 864 fibers per cable!
- ✚ Fully compatible with IEC, TIA, GR-20 CORE
- ✚ Fully RoHS Compliant, Test Report for each reel
- ✚ Full Range of Armoring Options
- ✚ Fully waterblocked, UV resistant, extreme temp. ranges
- ✚ Tight buffer and Loose-tube constructions available

Cable Designs to Meet Present and Future Demands

Aerial Cables



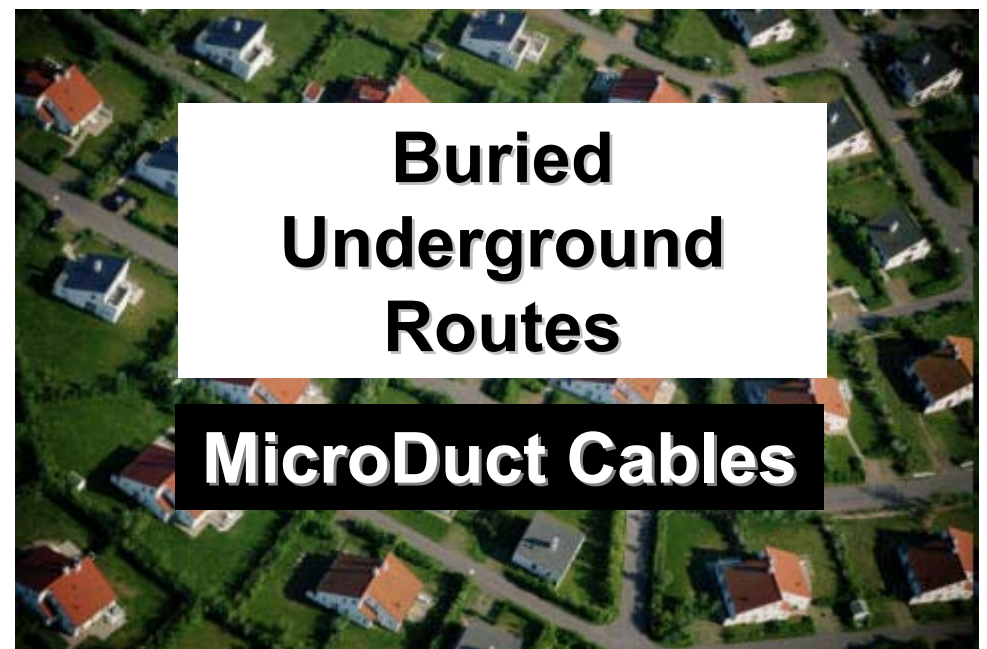
- Self-Supporting Cables w/ messenger
- OPGW cables
- ADSS up to 1.0 km spans
- Drop cables for LAST MILE/FTTH w/ Unique fastener



Cable Designs to Meet Present and Future Demands

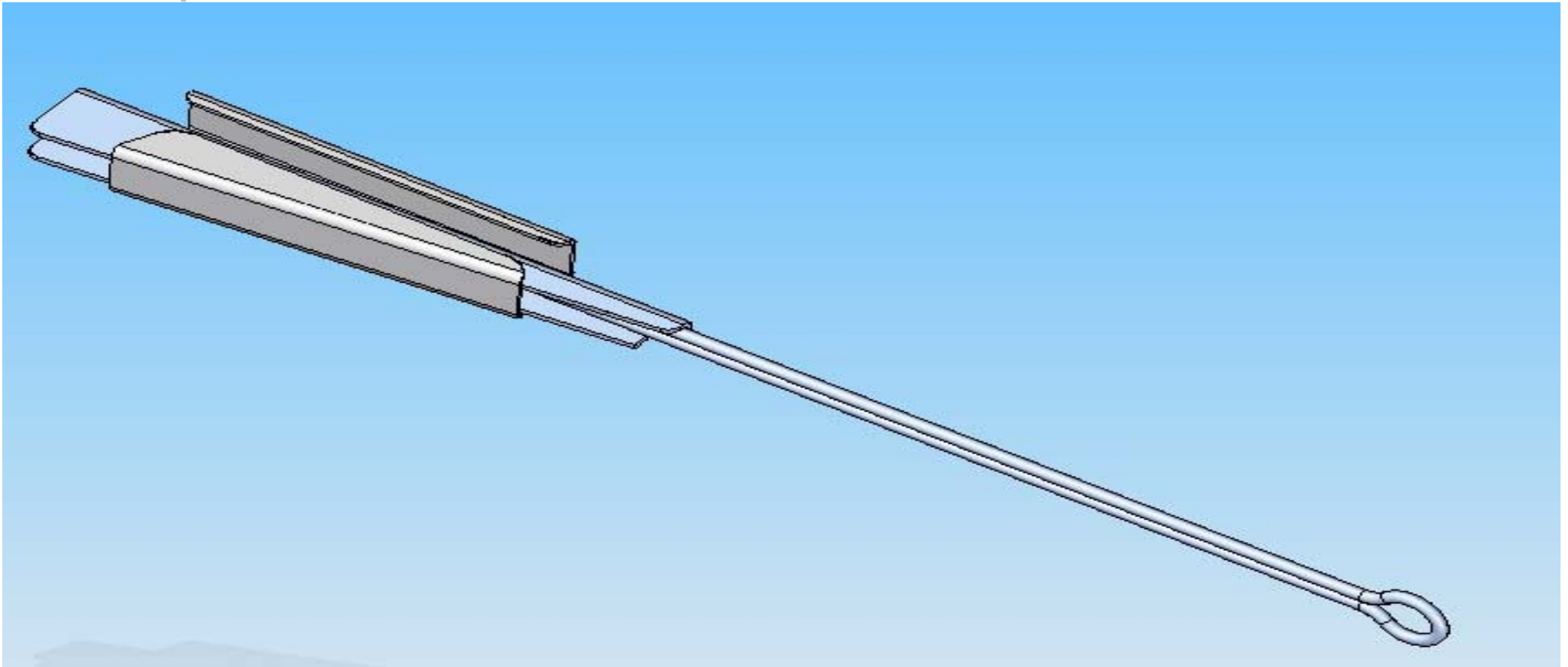
When it comes to cable designs for FTTH in the LAST MILE, the world is divided into 2 infrastructure realities:

Each situation demands different cable designs:



Cable Designs to Meet Present and Future Demands

Drop cables for LAST MILE/FTTH with Unique fastener




Cable Designs to Meet Present and Future Demands LAST MILE / FTTH




- The **FTX** Microduct Cable for Blown Installation
- Complies with IEC 60794-5 (Family Specification)
- Will Comply with future 60795-2-10 (Product Specification)

Get All You Need With a Click of Your Mouse



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The Best Connection™

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23.04.2009

Teldor's Outside Service Plant Fiberoptic and Copper cables receive RUS Acceptance


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We especially would like to welcome customers of the former Telecommunications Division of Synergy Cables, acquired by Teldor on July 1st, 2008. We have retained the previous product brochures for your convenience.



Thank you for your attention

