



IEC-ITU-T Workshop

Standardization Roadmap for Cabled Multi-Core Fibre and Optical Network Sensing Technologies

17 October 2025

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Organizers

Objectives

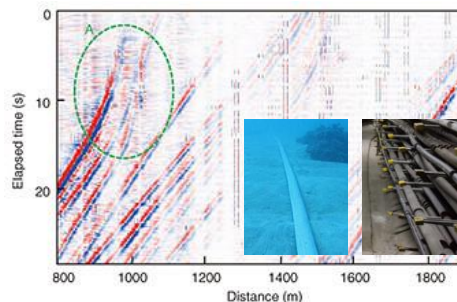
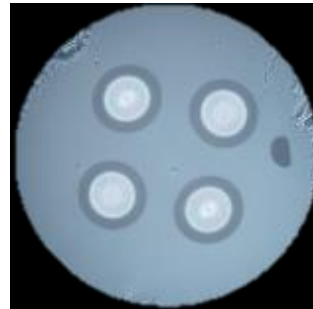


◆ Establishing new global ecosystem for emerging technologies

- *Share the market trends/requirements*
- *Harmonize between multiple SDOs*



- SC86A Fibres & Cables
- SC86B Fibre optic Interconnecting devices & passive components
- SC86C Fibre optic systems, sensing, and active devices



- Q2/15 Access NW
- Q5/15 Fibres & cables
- Q6/15 Terrestrial systems
- Q7/15 Outside plant
- Q8/15 Submarine systems

Session 1 Toward multi-core fibre ecosystem



◆ Invited talks (8 min. per each)

- Alexix Carbo Meseguer, ASN

Trends in Submarine Networks and Expectations for Multi-Core Fiber Deployment



- Vincent Ferretti, Corning Inc.

Potential Benefits of MCF for Datacenter Applications



- Lei Shen, Jing Li, YOFC

Development, application and commercialization progress of SDM in China



- Patrick Turreau, Photon Kinetics

Multi-Core Fibre Production Measurements: Some Practical Considerations



- Takashi Matsui, NTT Inc.

Standardization activity in ITU-T on multi-core fiber technologies



◆ Panel discussion (35 min.)

Session 2 Network sensing and standardization



◆ Invited talks (10 min. per each)

- Paulo Serra, ANACOM

Signals from the Deep - Submarine Cables for Safety, Science, and Security



- Yoshifumi Wakisaka, NTT Inc.

Applications and expectations for terrestrial network sensing



- Werner Daum, Convenor, SC86C WG2, IEC

IEC standardisation activities for distributed network sensor technology



- Jun Shan Wey, Verizon

Network sensing standardization in ITU-T SG15



◆ Panel discussion (35 min.)