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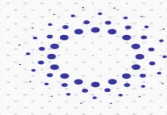
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## FTTH

Apartment Fiber Optic Connection Termination Application

Problems and **Mavi fiber** Solution Application

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In FTTH projects, generally **Drop Cable in G.657.A2** standard is used.

Since, this cable **does not provide enough flexibility for in-socket termination**, the termination is done by 2 methods.



## METHOD-1

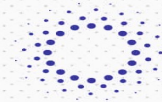
Terminating the fiber coming out **of the socket** by **mechanical connector**.



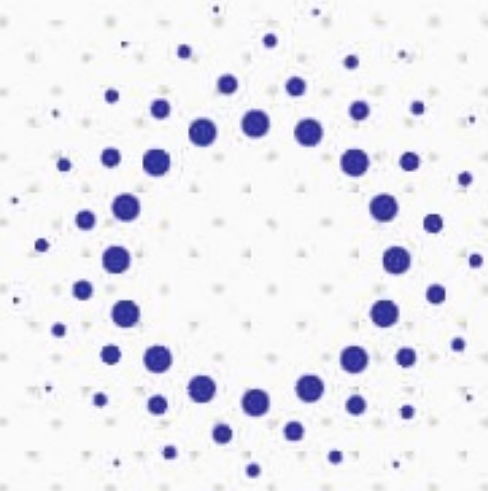
## METHOD-2

Terminating the fiber coming out **of the socket** in **Subscriber Termination Box (STB)** with **fusion splice**.

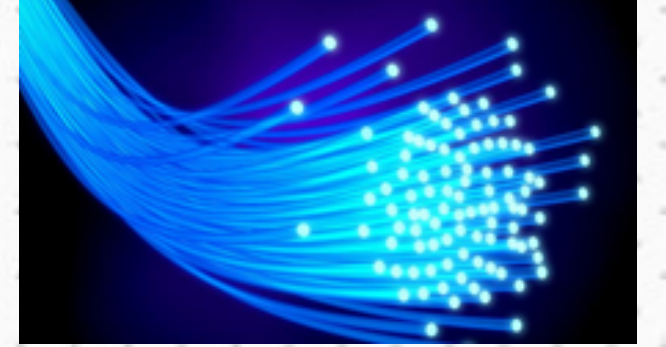
These methods require more labor and material costs in investments, and also lead some operational difficulties.



- ❖ **When G.657.A2 standard Drop Cable is used, between the building system room and indoor socket (system room-shaft-weak current panel-junction-socket), the signal level attenuation because of the bendings at the route.**
- ❖ **High service interruption rates, due to mechanical connector workmanship defects.**
- ❖ **Requirement of labor for fusion splicing in termination box.**
- ❖ **Creating visual pollution due to installation of additional box on the surface or mechanical connector cable suspended from the socket on the wall.**
- ❖ **Furthermore, bending-induced service interruptions occurrence due to G.657-A2 interconnect fiber patchcord cable between the termination box and ONT (Optical-Electrical Converter) is in user intervention environment constantly.**



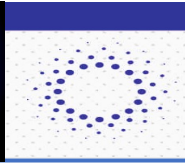
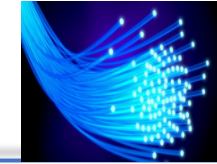
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## Solution Proposal

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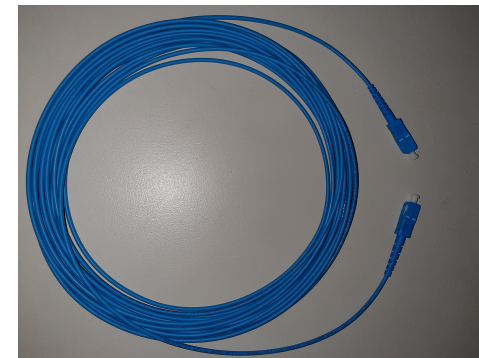
The implemented solution, to eliminate **all the disadvantages** mentioned  
in both methods currently used

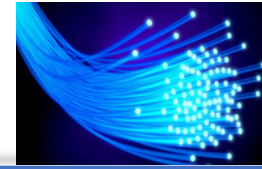
## **mavi fiber - Ultra Bend-Optimized Optical Cable**

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**Fiber Socket & Fabricated Connector**

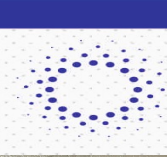
**mavi fiber**





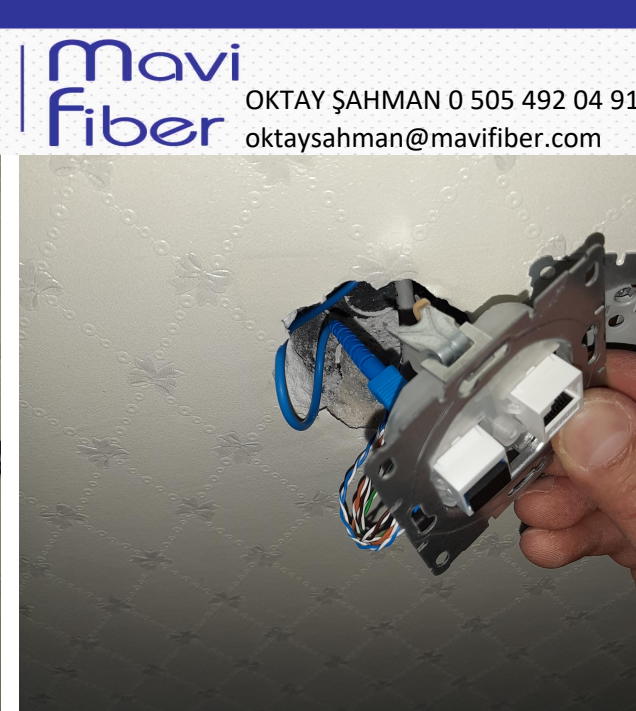
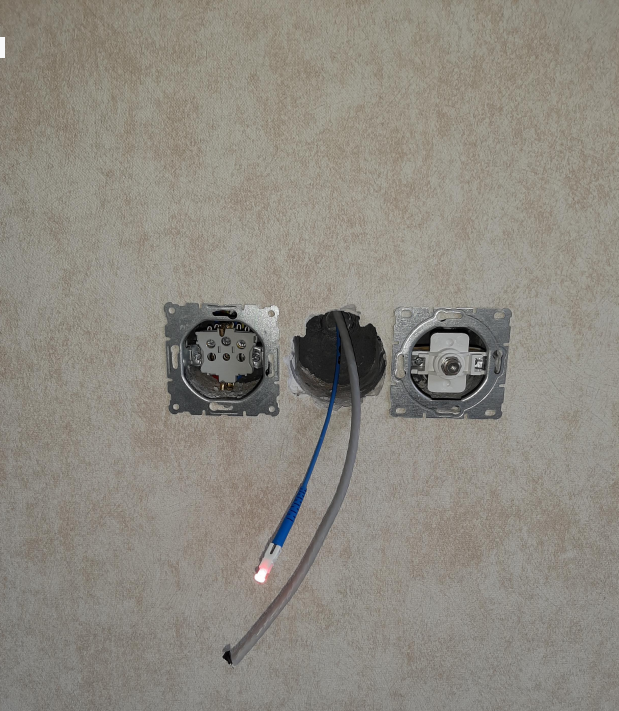
- ❖ Instead of G.657.A2, when special-production mavi fiber Ultra Bend-Optimized Optical Cable used in indoor fiber cable installation, even with bends up to 180 degrees 3mm diameter, there is only 1-2 db slimming; so termination can be done by inserting SC Fiber socket into the current data socket.
- ❖ Because of no fusion splice box and mechanical connector are used, labor and material costs are saved.
- ❖ Signal attenuation, communication interruption etc. problems do not happen in montage and operation processes due to cable bending.





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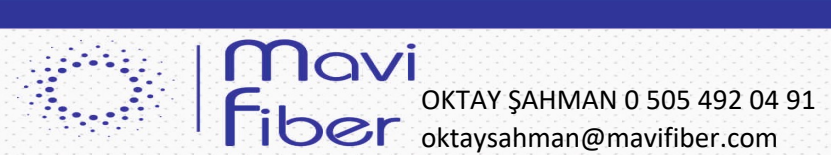
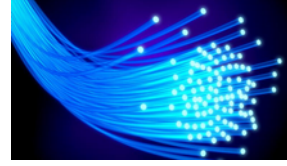
Ultra Bend-Optimized  
Optical Cable Application

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Ultra Bükülmeye Optimize Edilmiş  
Optik Kablo Uygulama



# REFERENCES



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