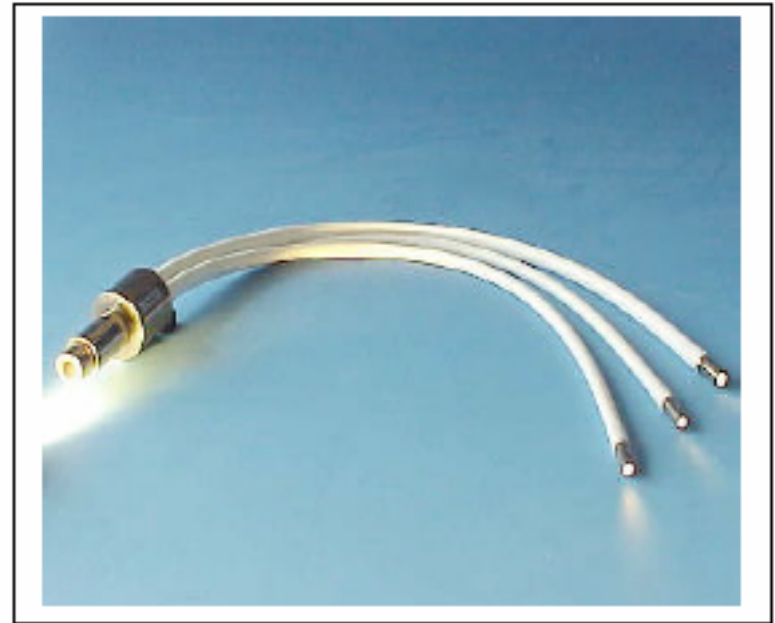


# Cavi a fibra ottica

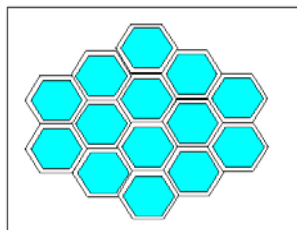
# Cavi a fibra ottica per illuminazione



a) Fiber Optic Ringlight

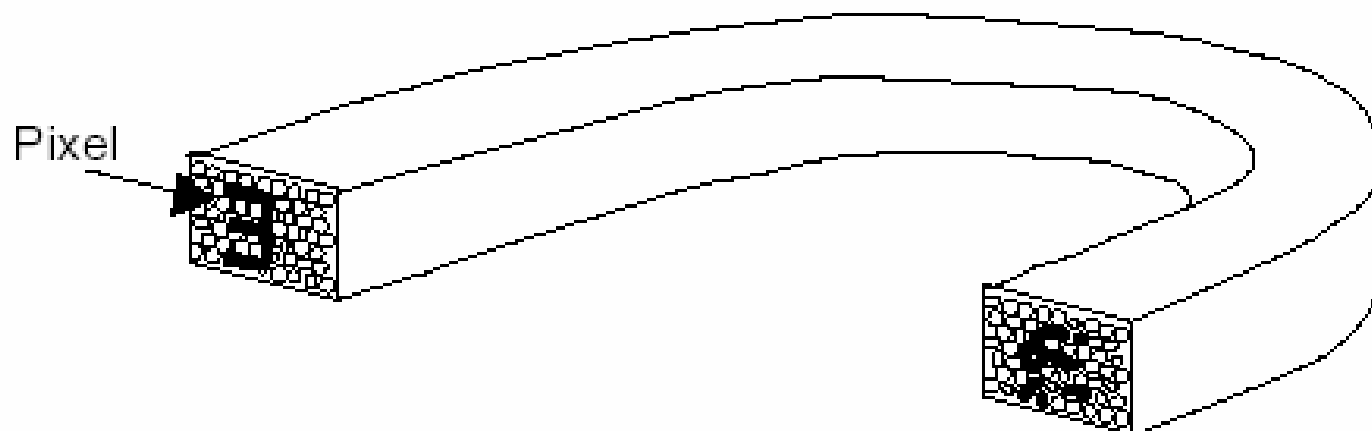


b) 3 Arm Light Guide



disposizione delle  
fibre ottiche  
(a nido d'ape)

# Cavi per immagini



# Tipica architettura di cavetti a fibra ottica

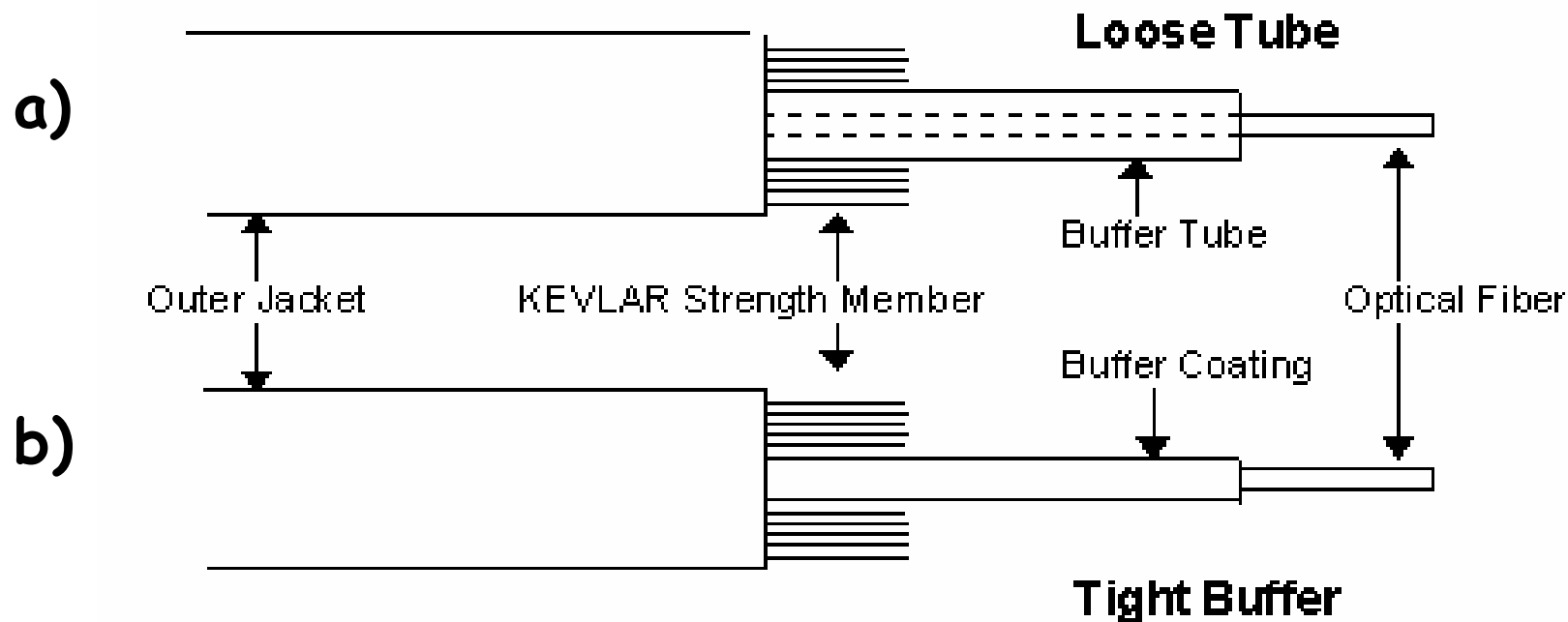
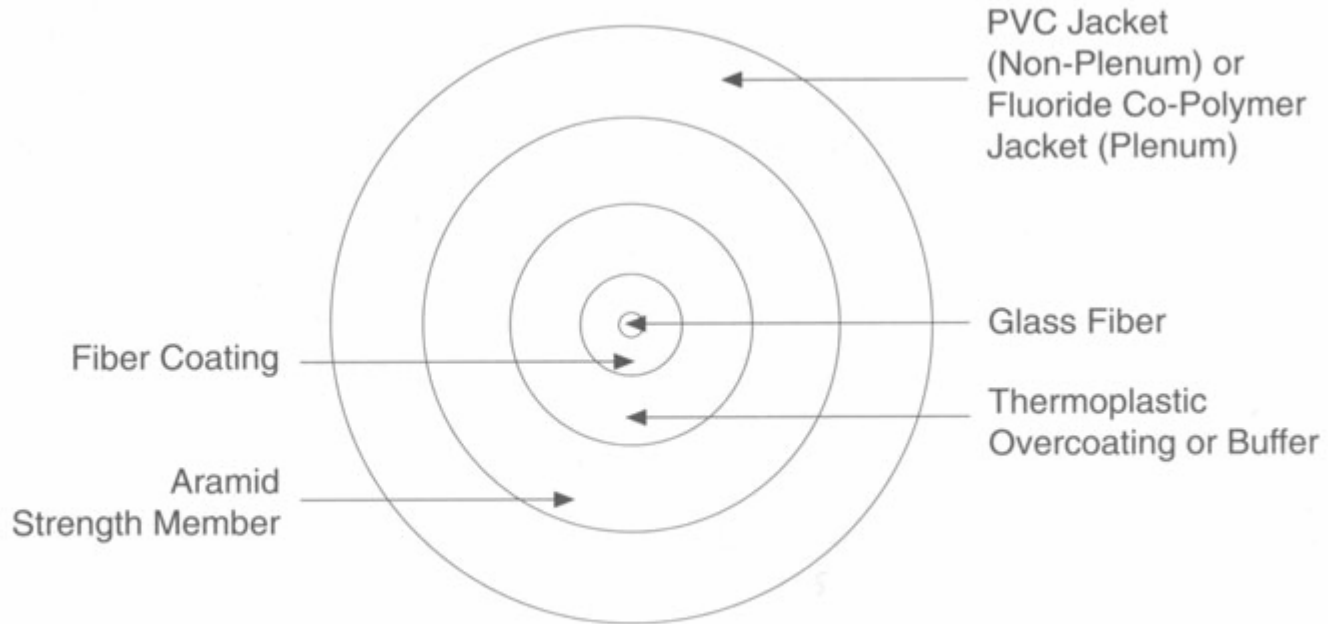
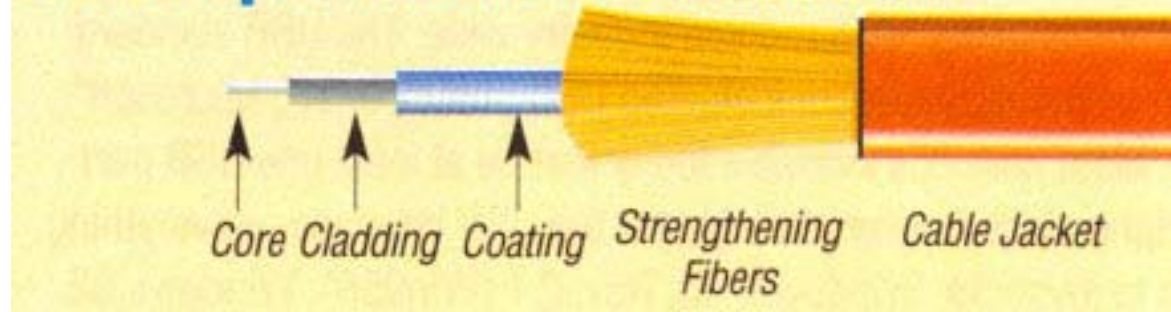


Figure 1, Basic Fiber Optic Cable Construction

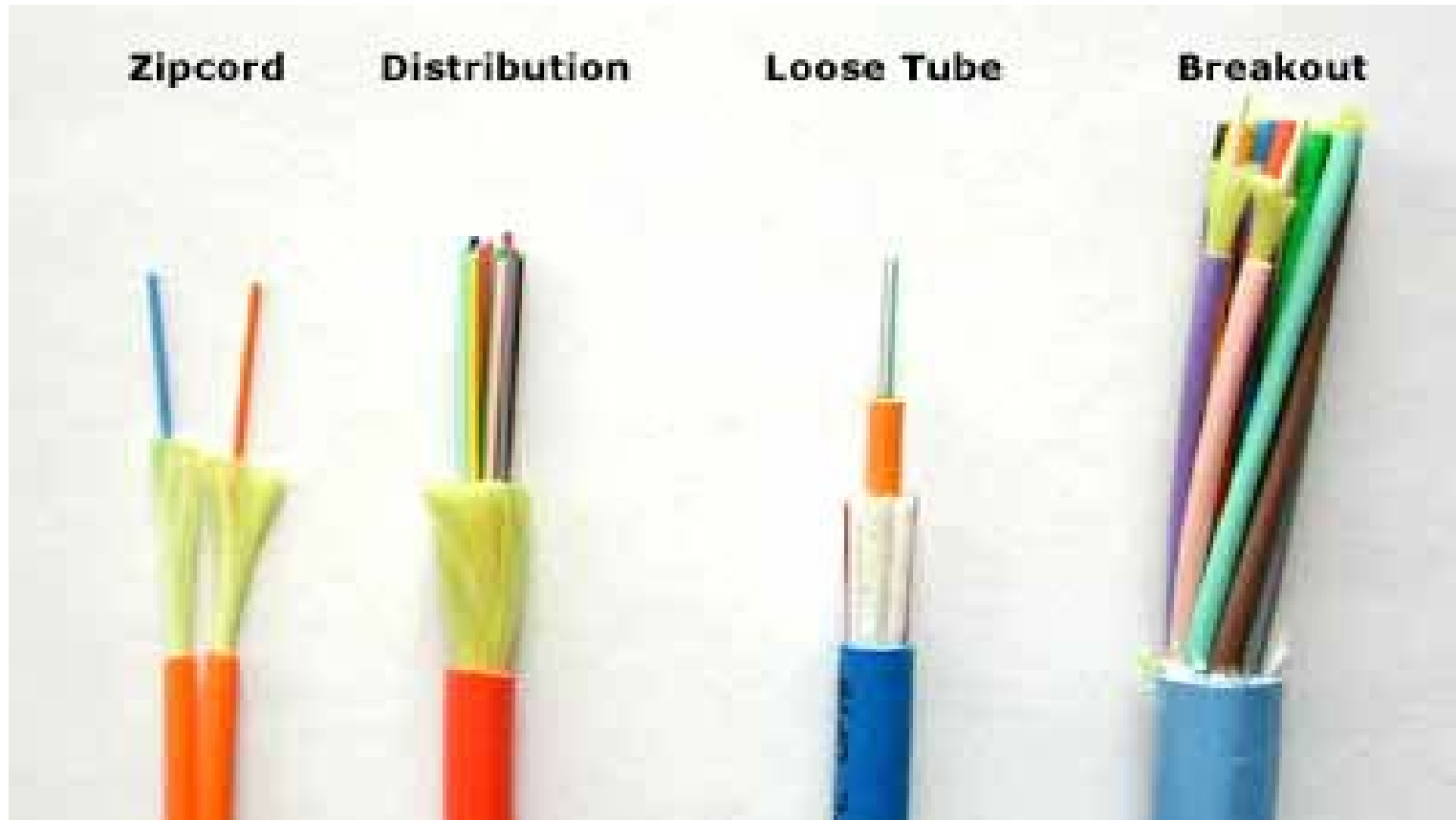
# Cavo a fibra ottica monofibra

## Fiber optic cable construction.

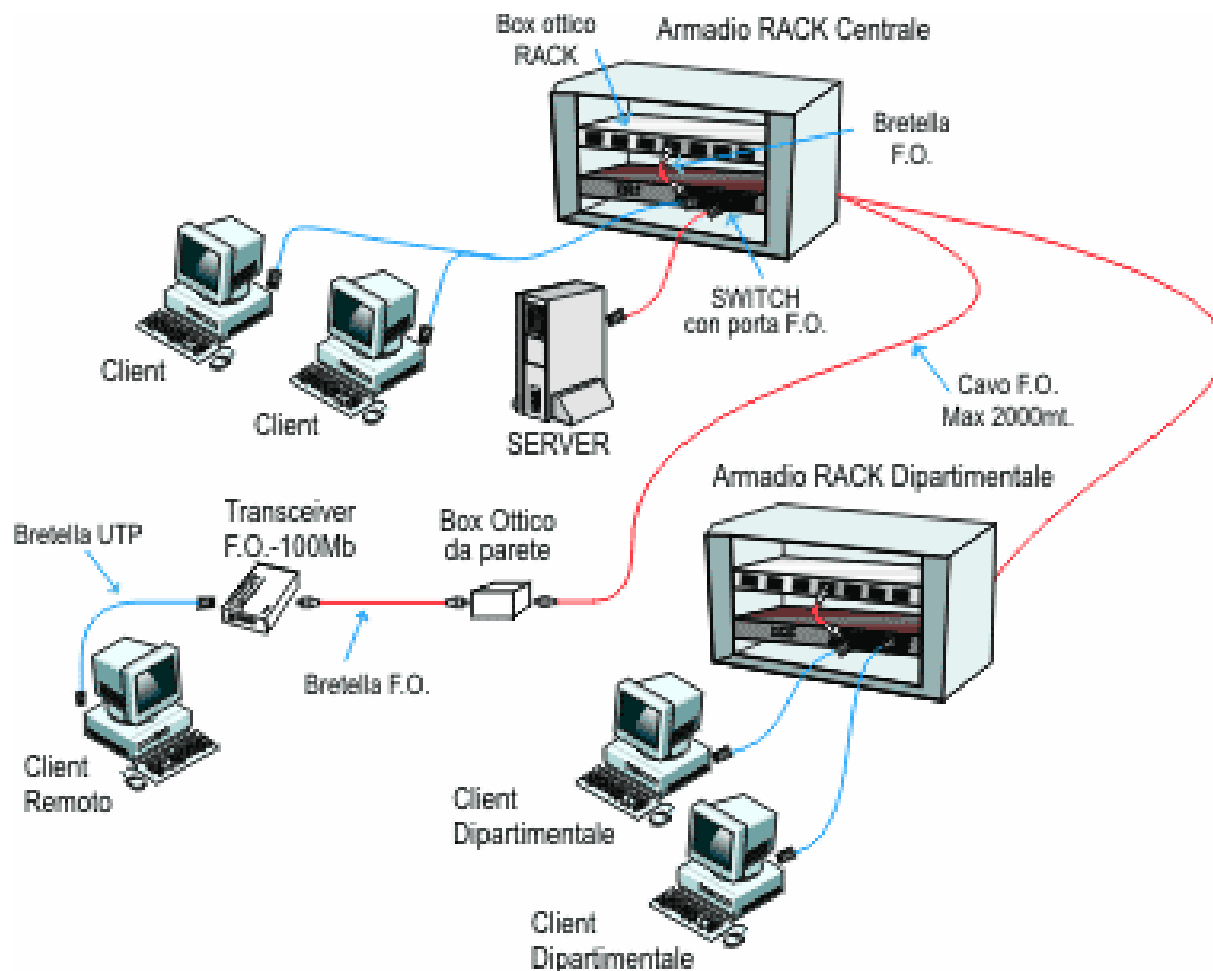


*Tight-Buffered Cable*

# Vari tipi di cavetti a fibra ottica



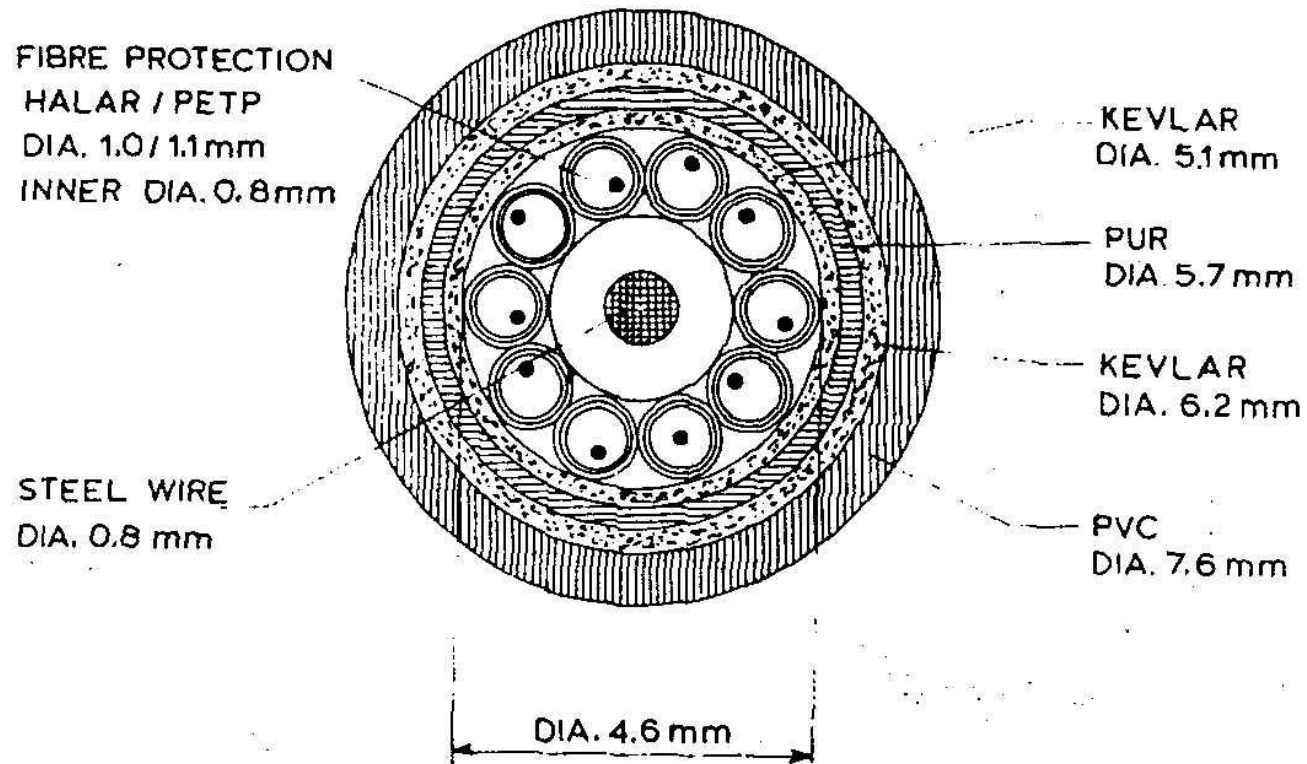
# Tipica applicazione dei cavetti a fibra ottica



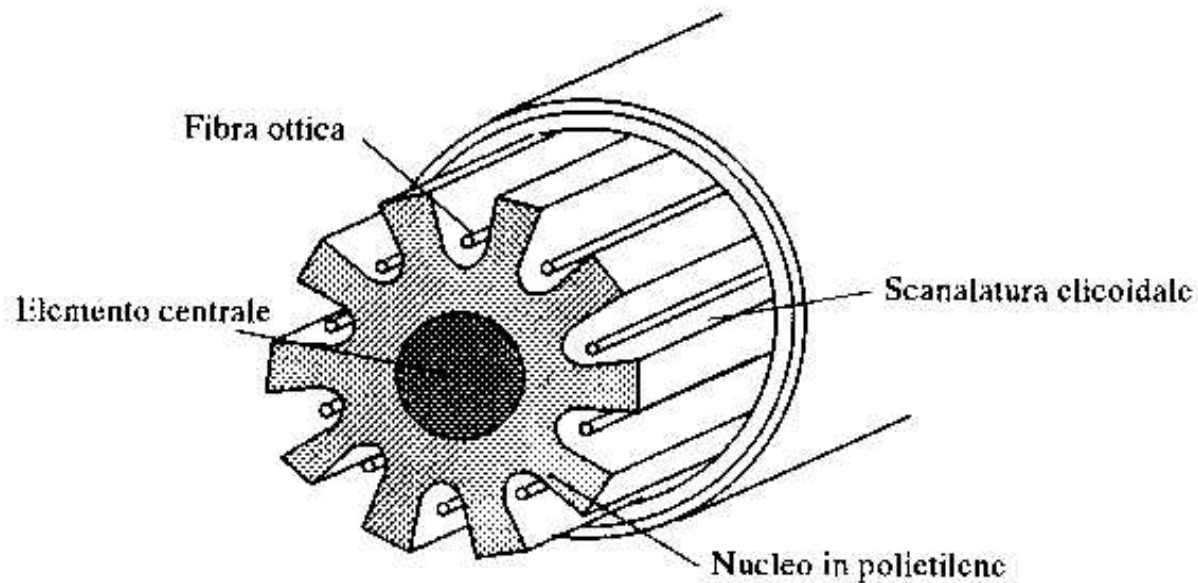
# Cavi a fibra ottica per telecomunicazioni



# Sezione di un tipico cavo a fibra ottica per telecomunicazioni

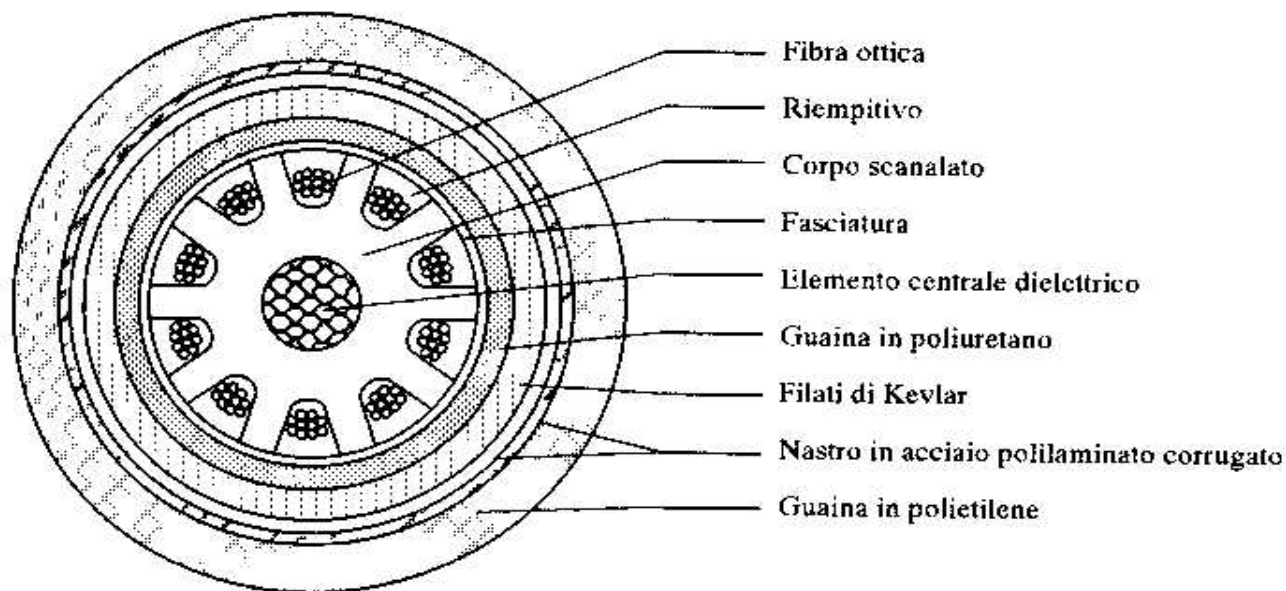


## Cavo ottico scanalato monofibra



**Fig. 3.30** Struttura di base di un cavo ottico scanalato monofibra.

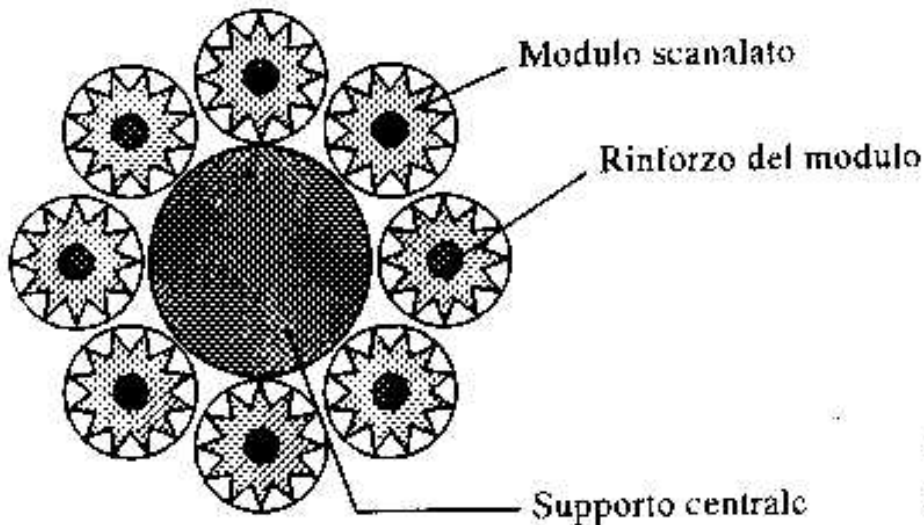
# Cavo ottico scanalato multifibra



**Fig. 3.33** Cavo ottico scanalato multifibra a 100 fibre.

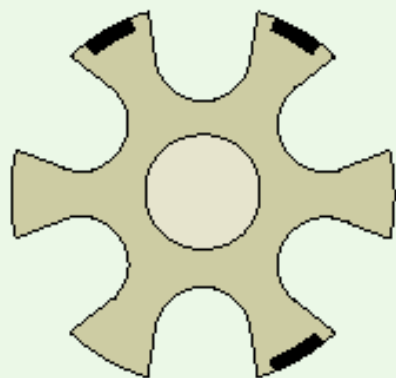
## Cavo multiplo

Un cavo può essere costituito da un insieme di più cavi allocati attorno ad un supporto centrale (elemento di tiro o strenght member)

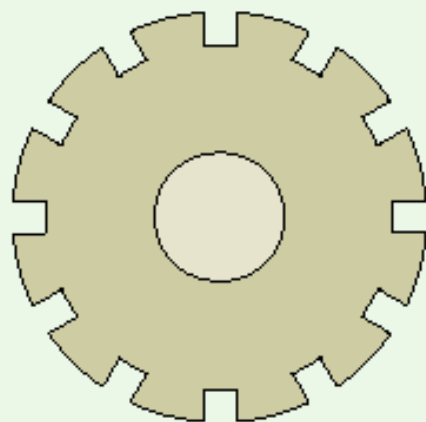


**Fig. 3.31** Schema di cavo ottico scanalature monofibra cordate.

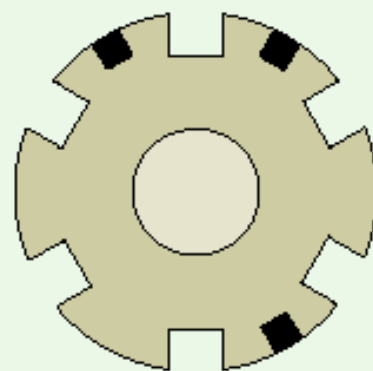
# Vari tipi di nuclei per cavi ottici scanalati



Slotted core profile for  
loose tube buffer of PA

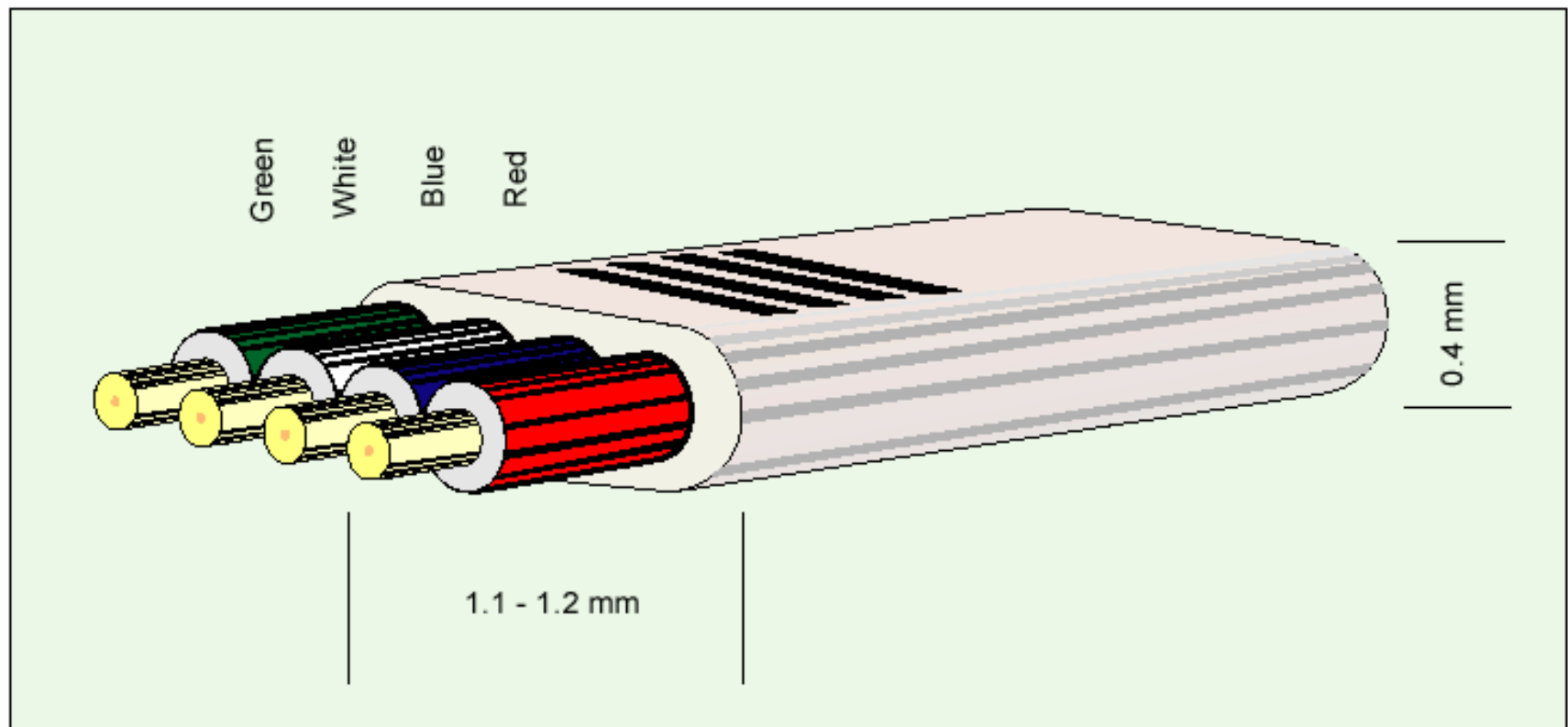


Slotted core profile  
for tight buffered  
fibers

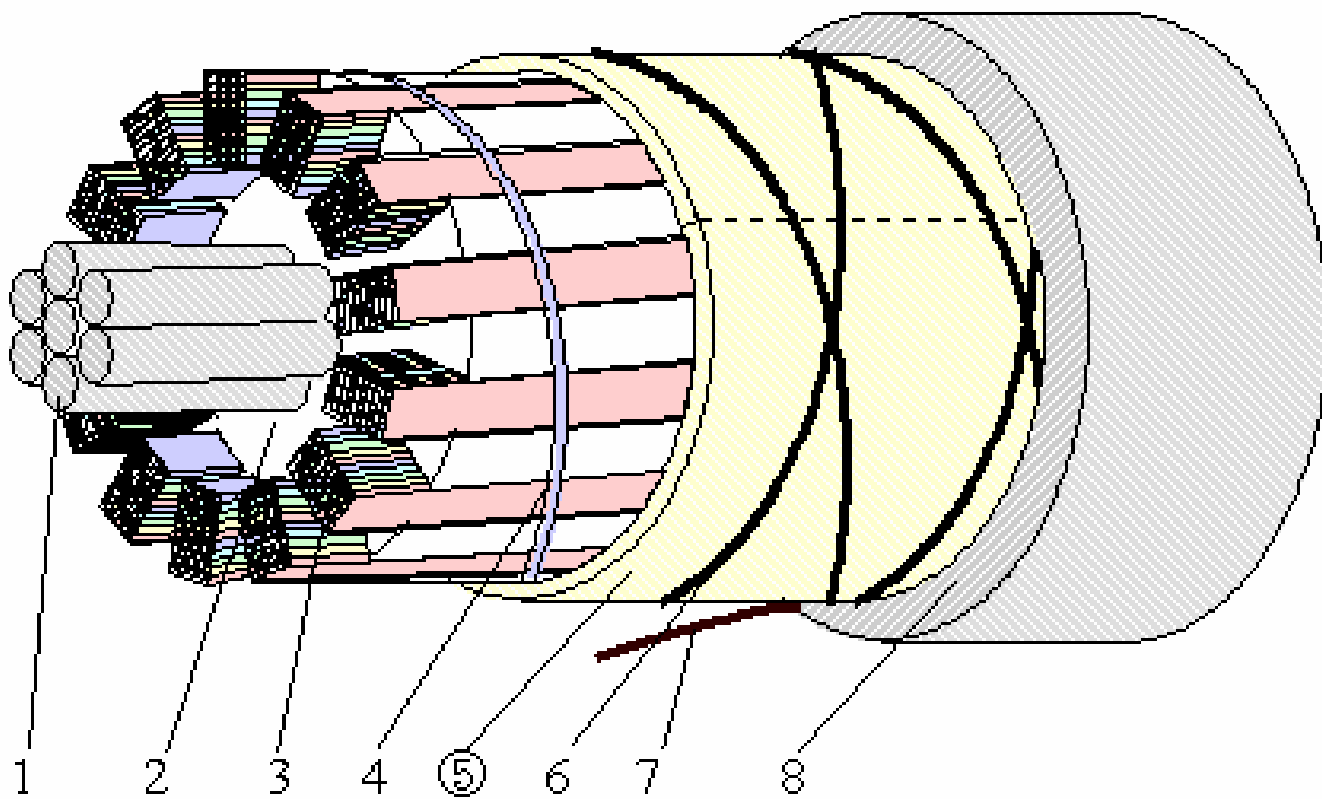


Slotted core profile  
for cable with fiber  
ribbons

# Nastri di fibre



# Esempio di una possibile architettura di cavo con nastri di fibre



# Cavo con nastri di fibre

- Alta densità di fibre (tipicamente 100 fibre)

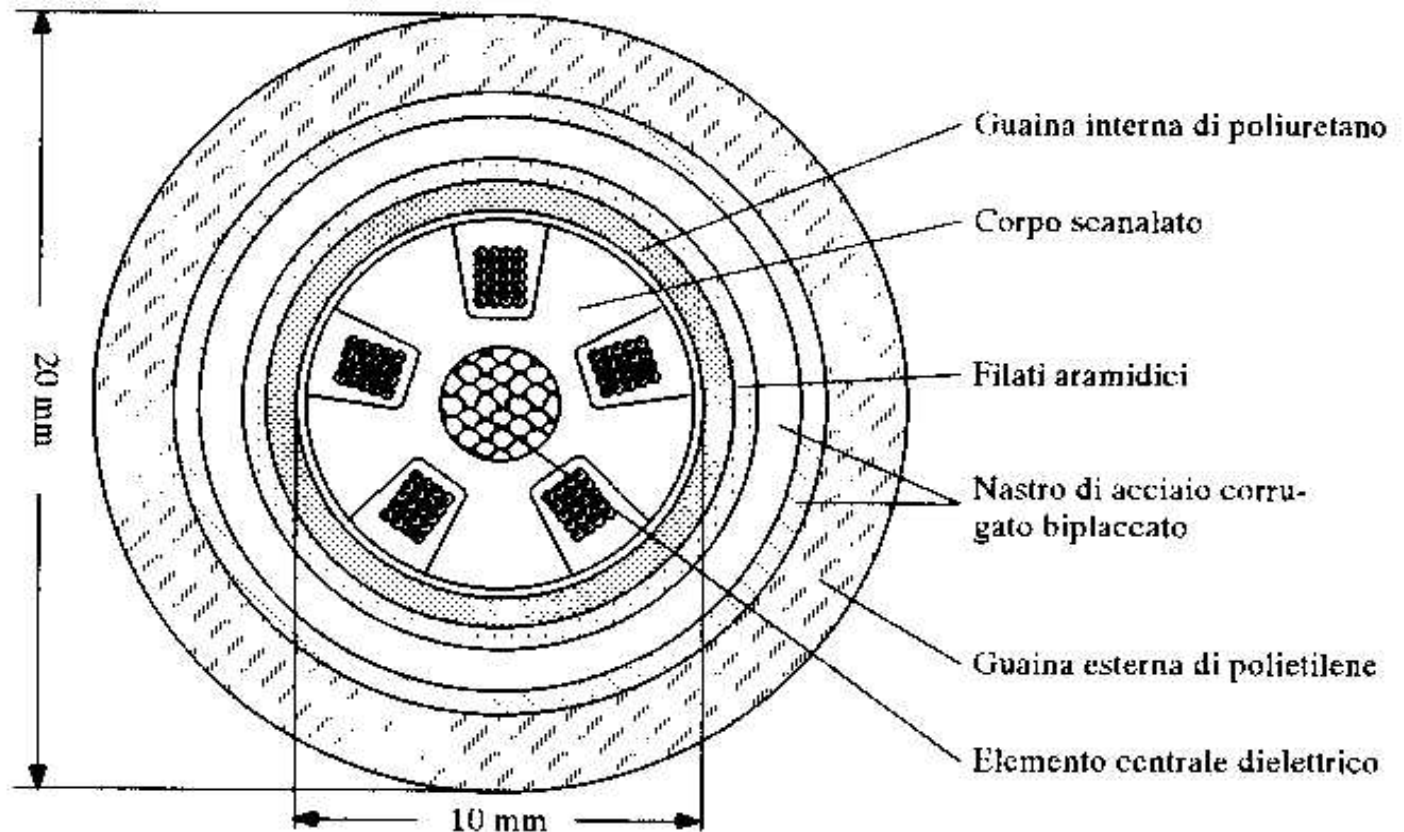
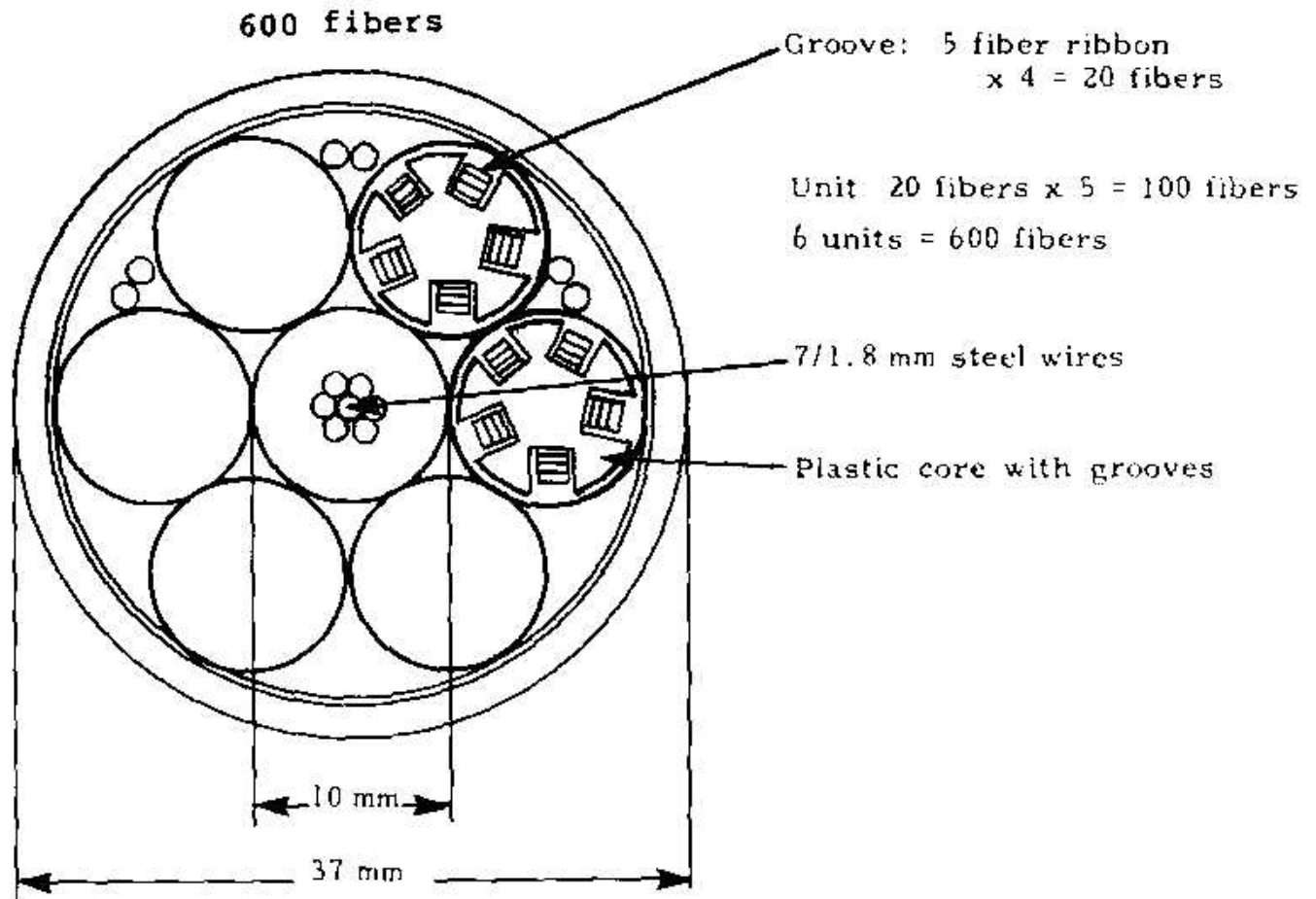


Fig. 3.37 Cavo ottico a nastri della capacità di 100 fibre.

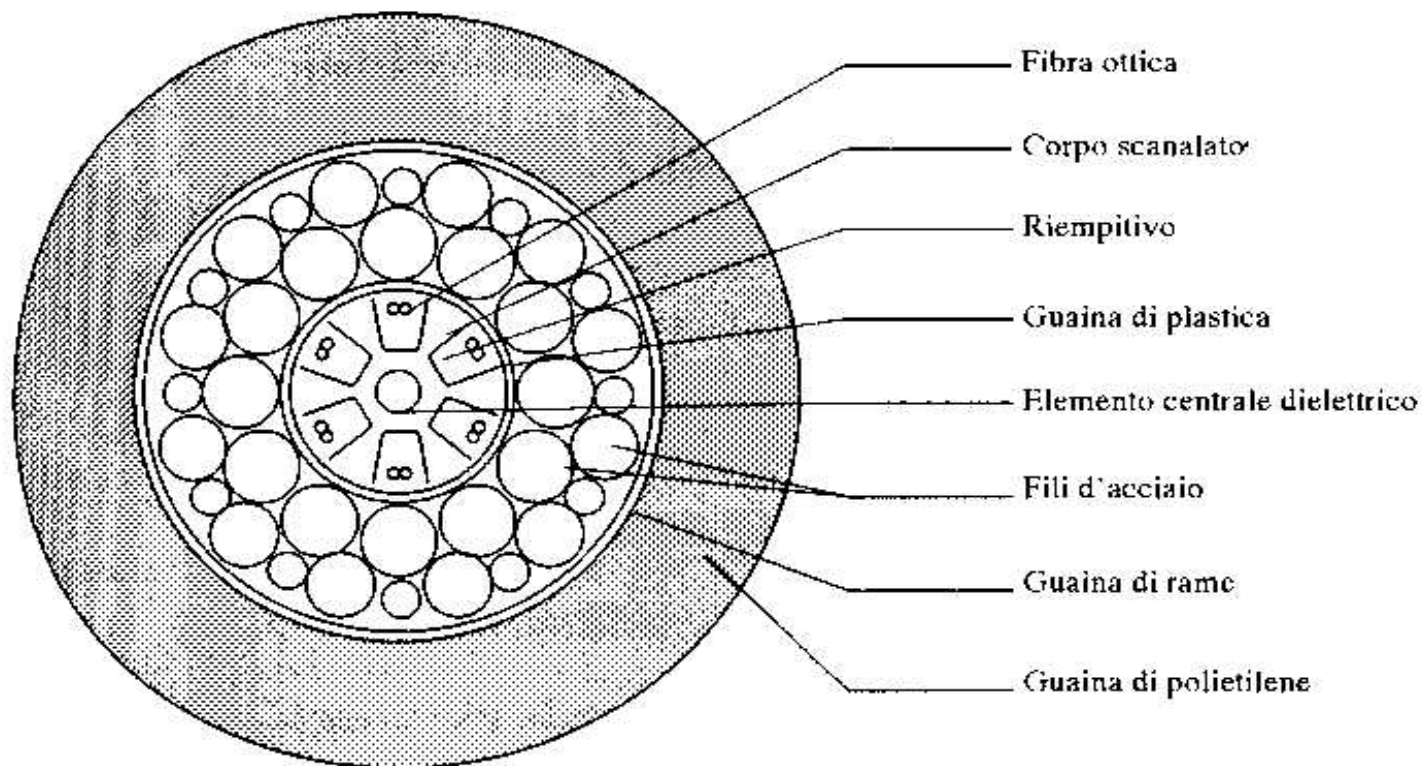


# Cavo multiplo con nastri di fibre

## (600 fibre)

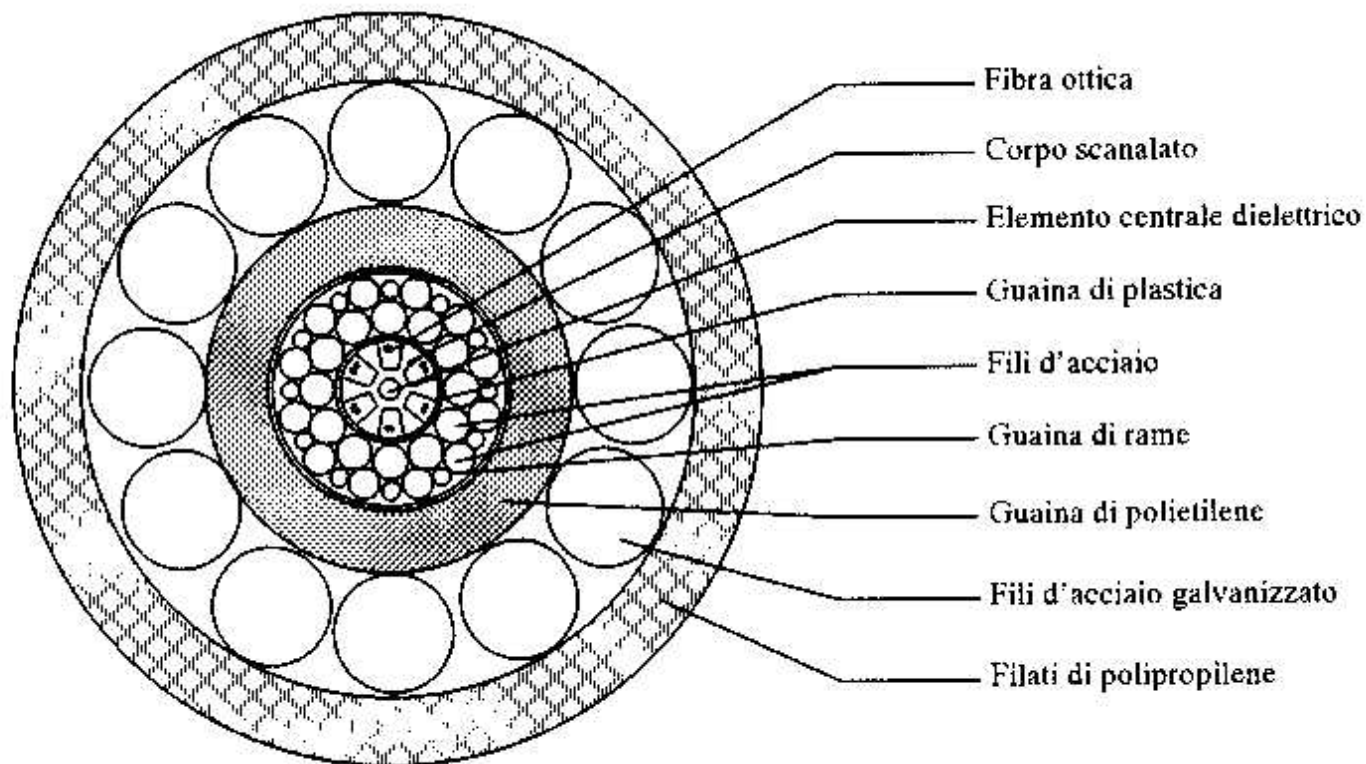


# Esempio di cavo ottico sottomarino



**Fig. 3.41** Cavo ottico sottomarino da fondo.

# Esempio di cavo ottico sottomarino



**Fig. 3.42** Cavo ottico sottomarino armato.



# Infrastruttura dei cavi a fibra ottica nella regione del mediterraneo (anno 1966)



## Optical fibre submarine systems

