

Cavi a fibra ottica

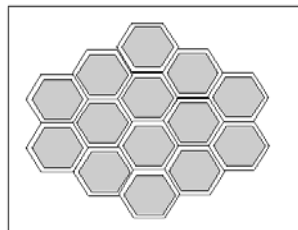
Cavi a fibra ottica per illuminazione



a) Fiber Optic Ringlight

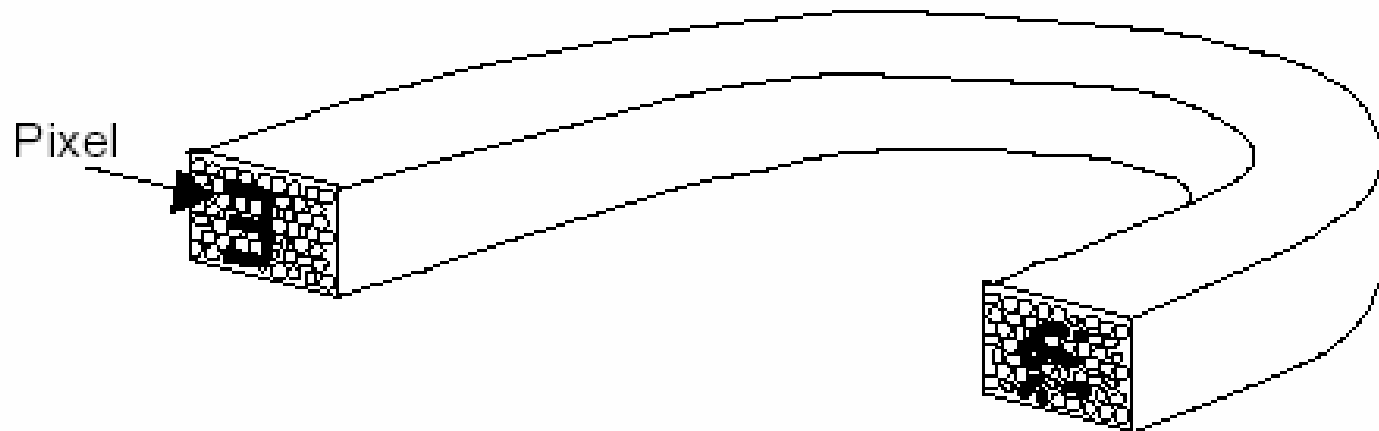


b) 3 Arm Light Guide



disposizione delle
fibre ottiche
(a nido d'ape)

Cavi per immagini



Tipica architettura di cavetti a fibra ottica

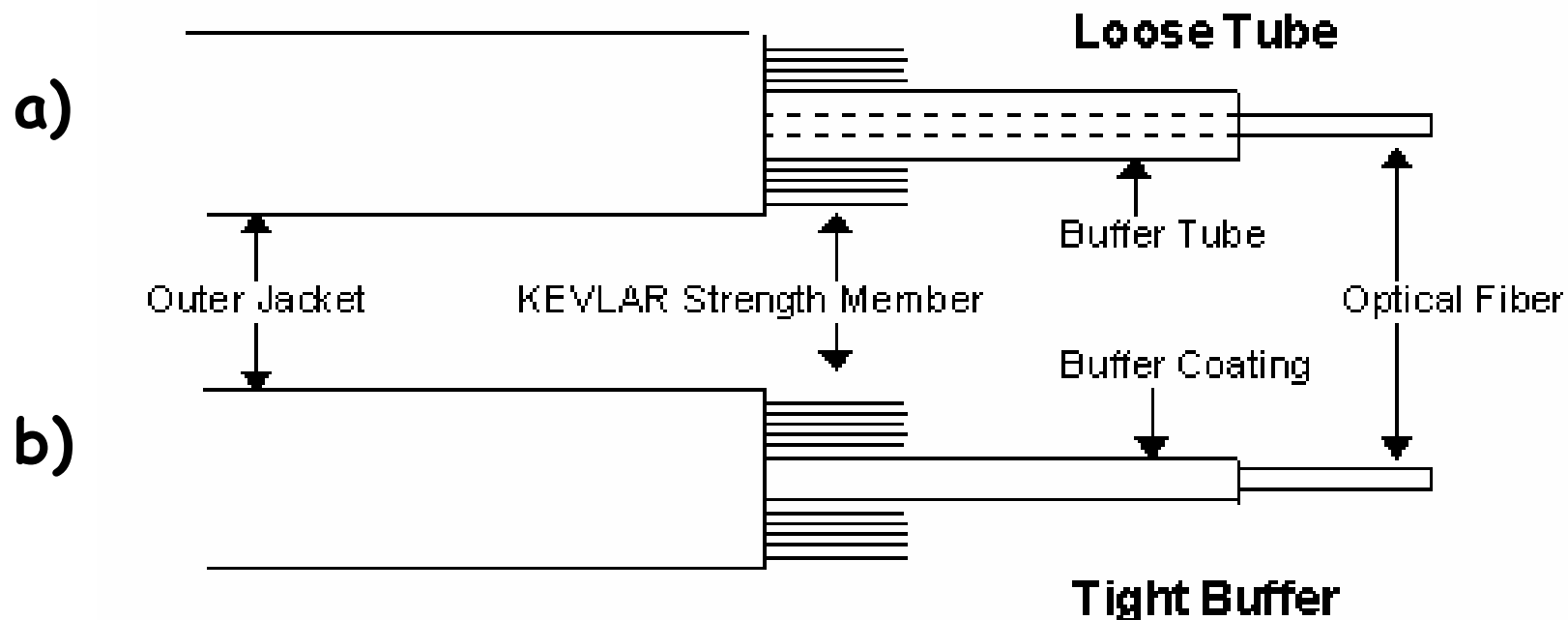
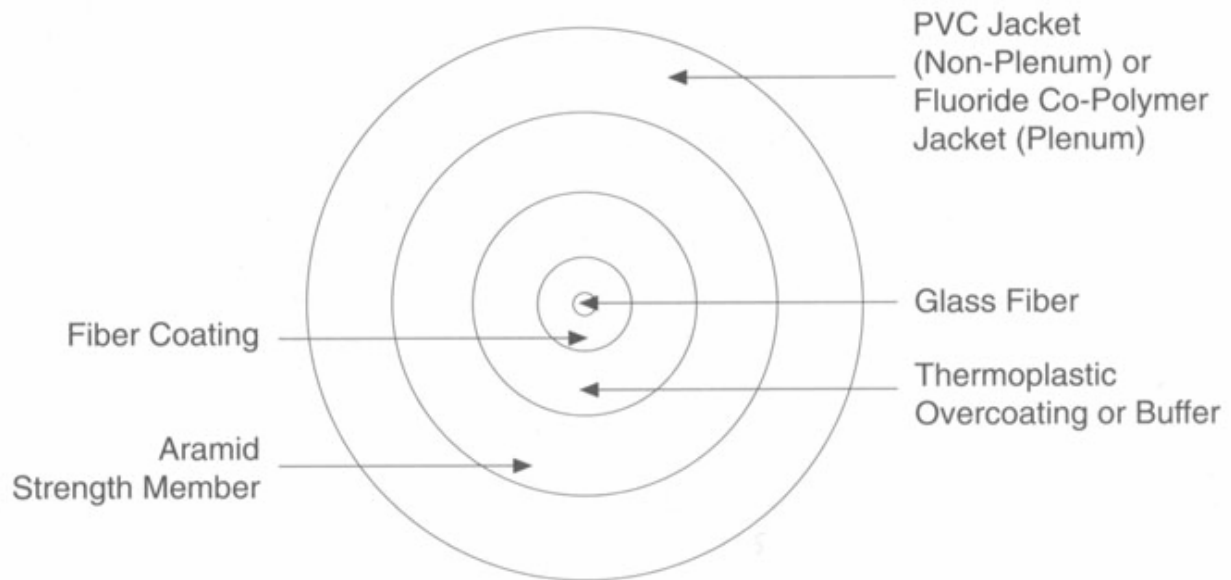
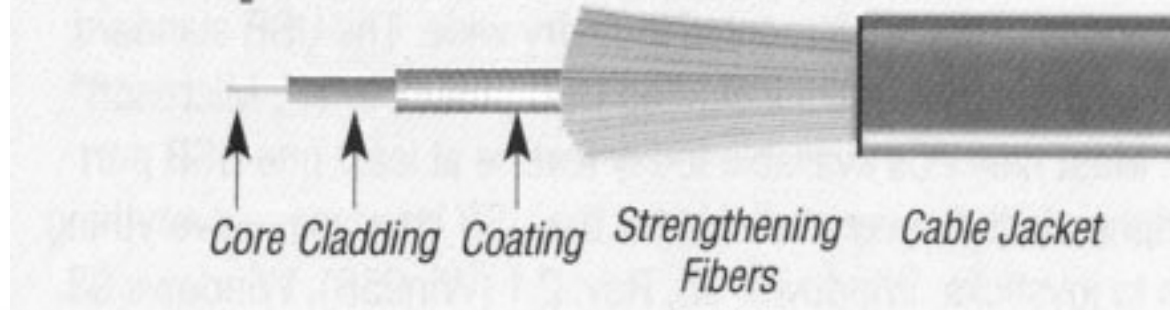


Figure 1, Basic Fiber Optic Cable Construction

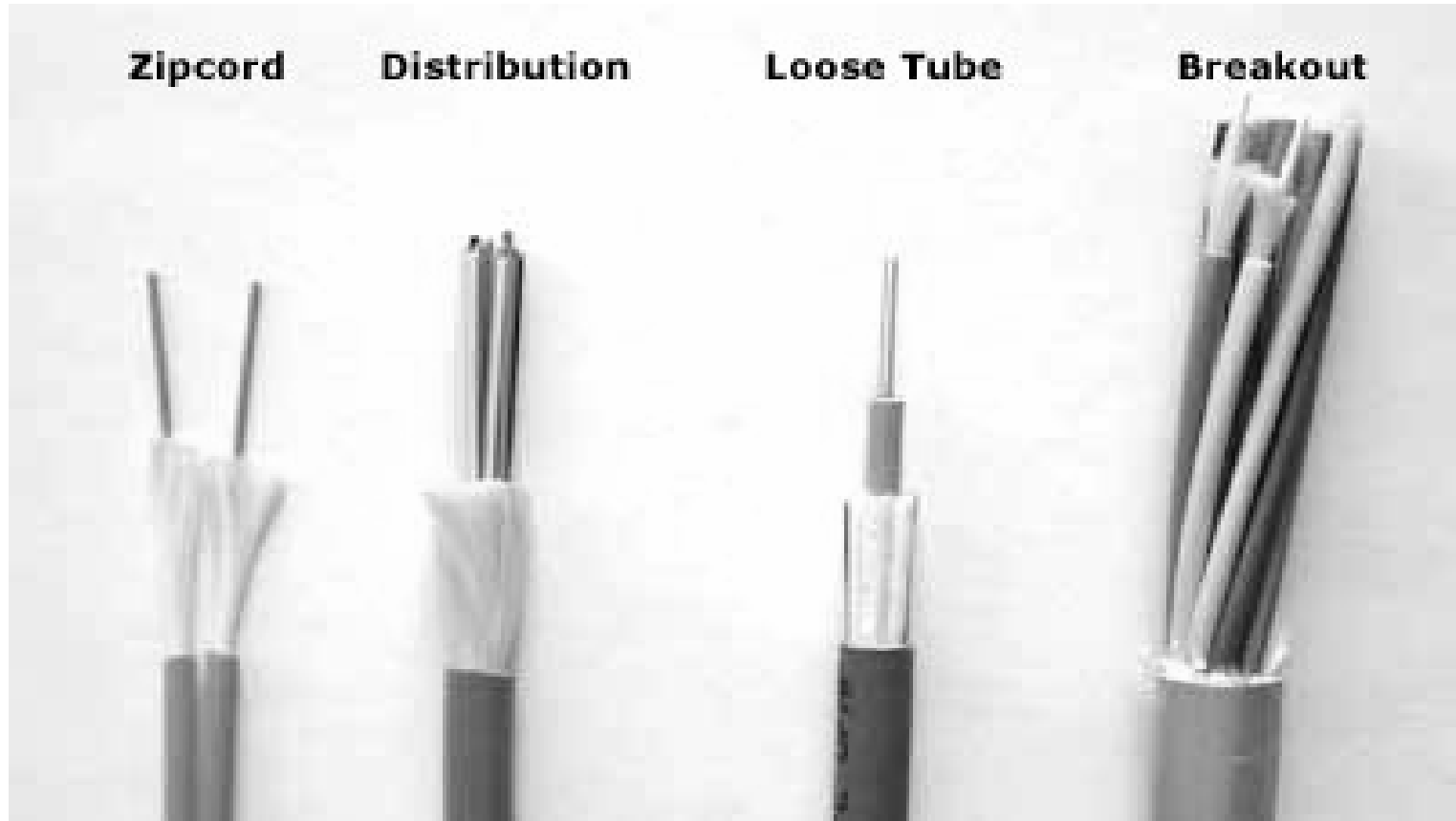
Cavo a fibra ottica monofibra

Fiber optic cable construction.

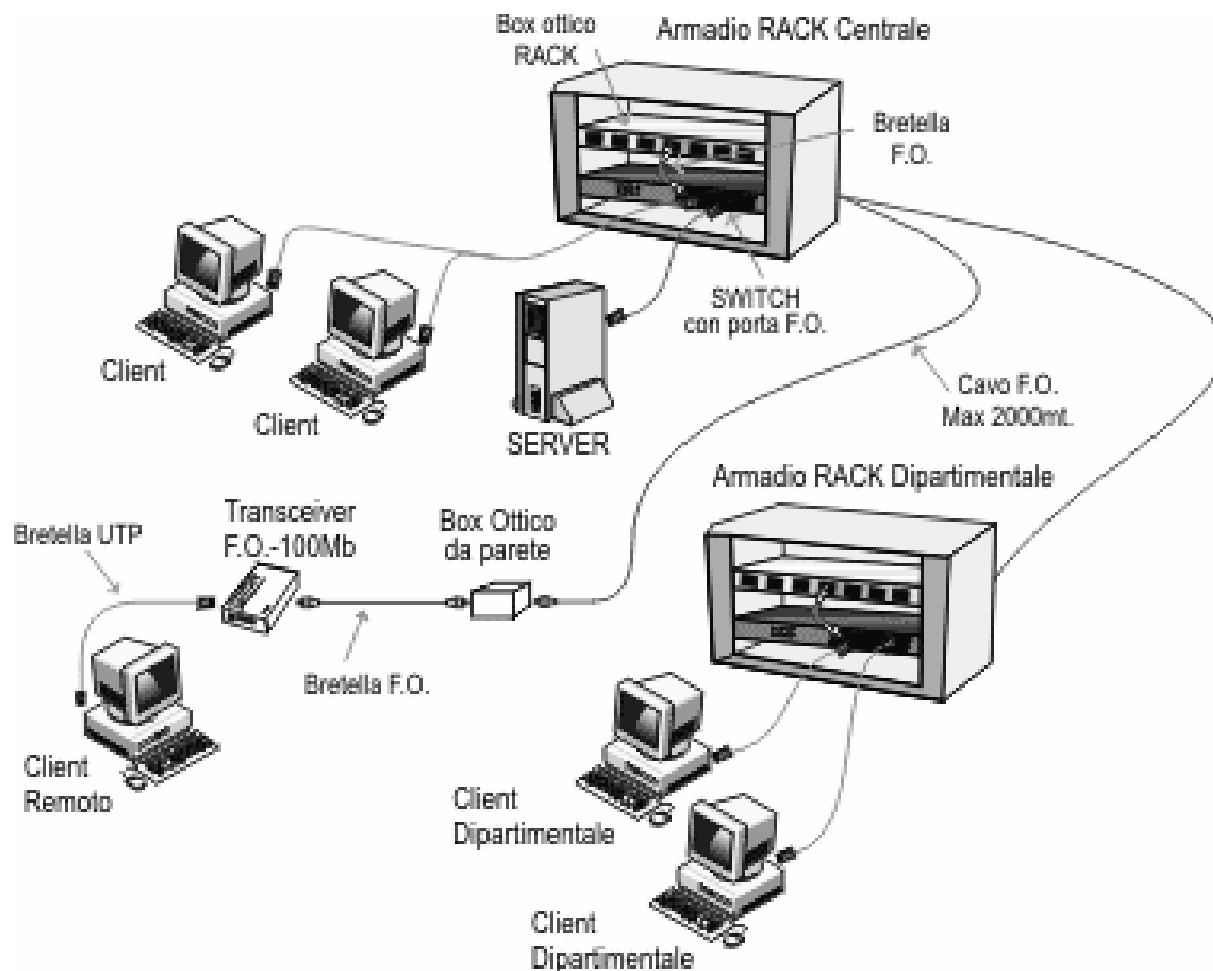


Tight-Buffered Cable

Vari tipi di cavetti a fibra ottica

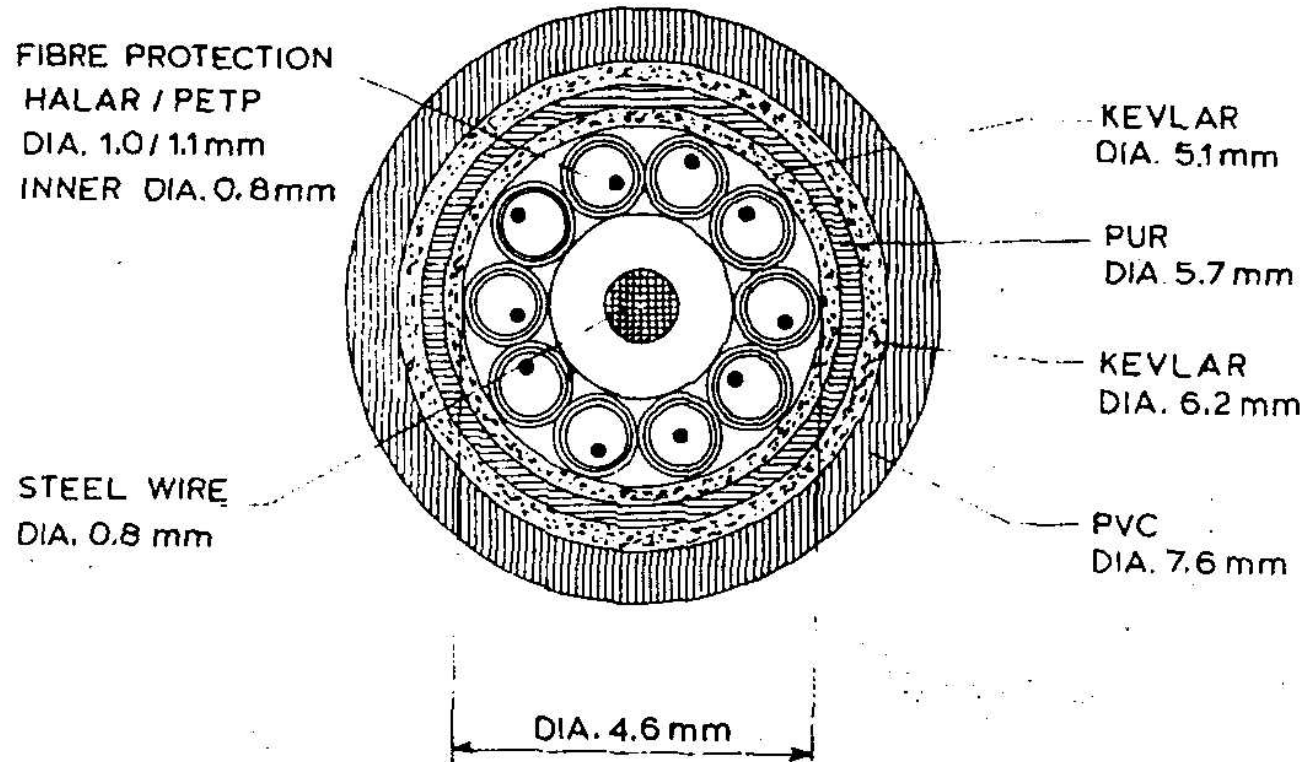


Tipica applicazione dei cavetti a fibra ottica



Cavi a fibra ottica per telecomunicazioni

Sezione di un tipico cavo a fibra ottica per telecomunicazioni



Cavo ottico scanalato monofibra

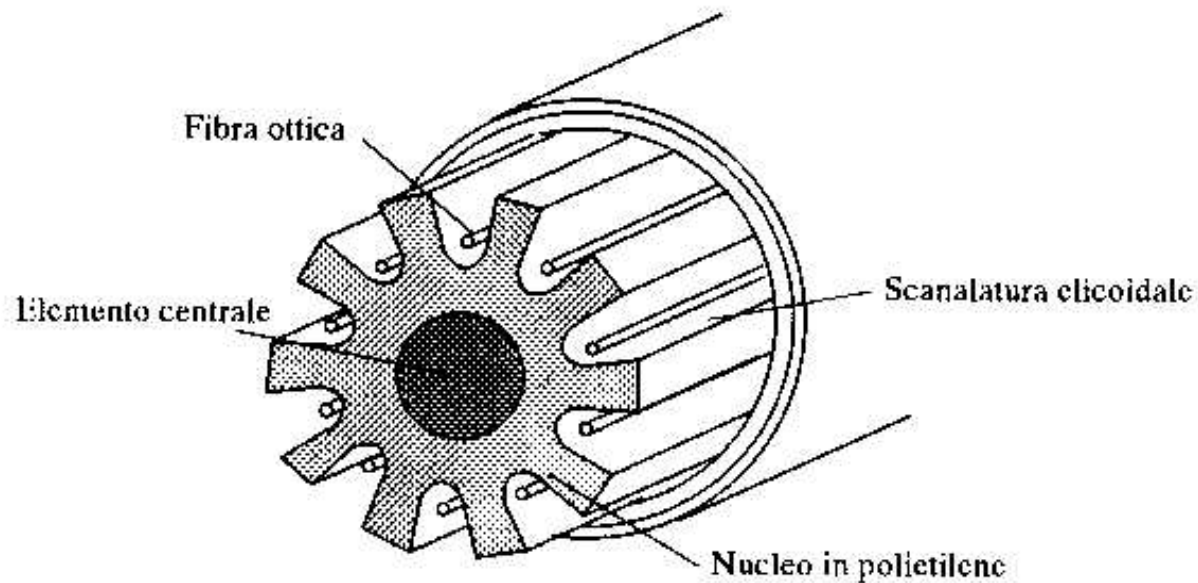


Fig. 3.30 Struttura di base di un cavo ottico scanalato monofibra.

Cavo ottico scanalato multifibra

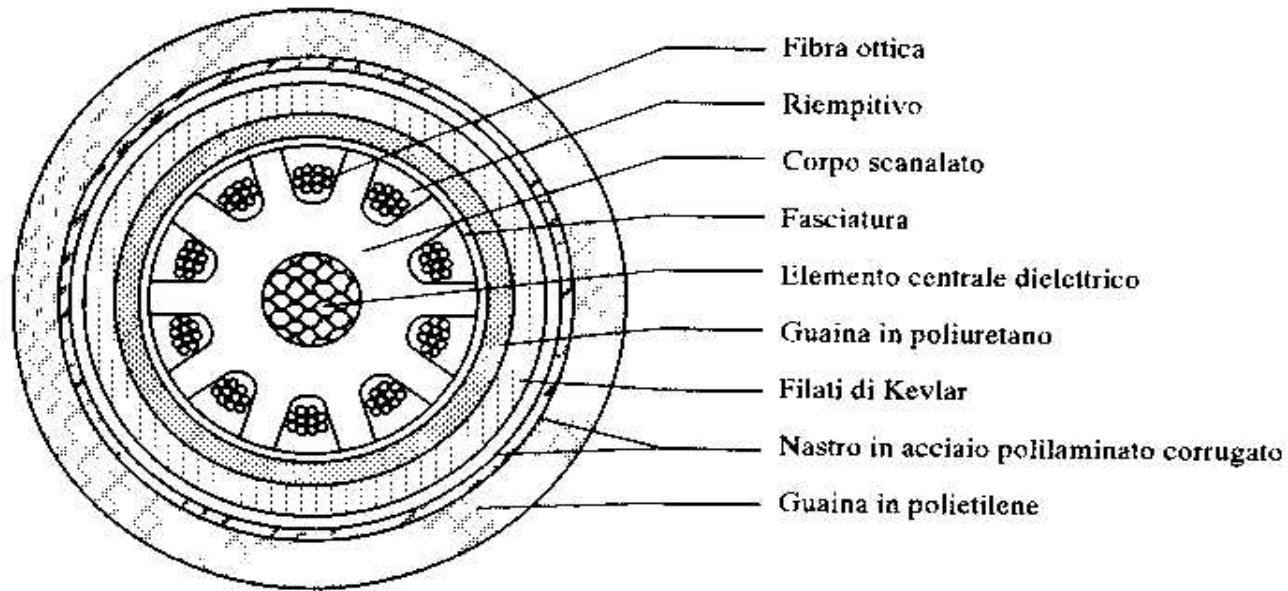


Fig. 3.33 Cavo ottico scanalato multifibra a 100 fibre.

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)

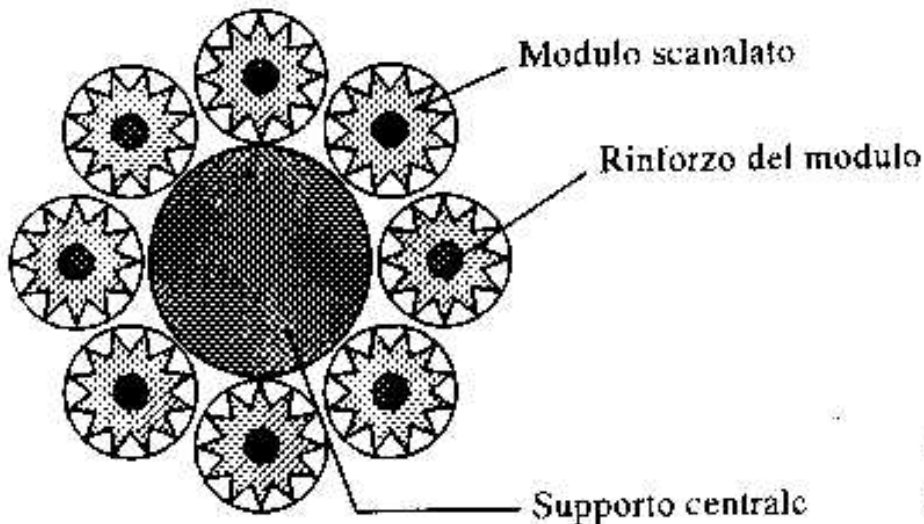
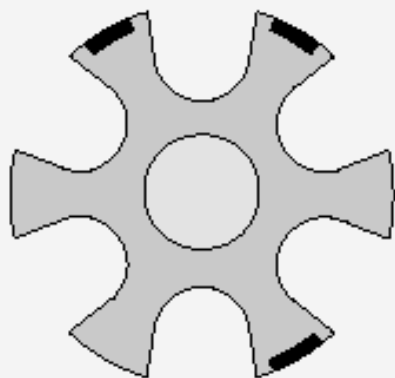
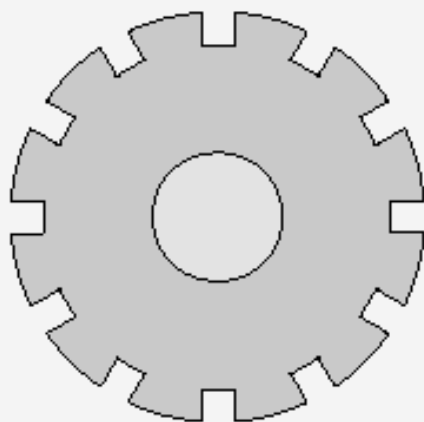


Fig. 3.31 Schema di cavo ottico scanalature monofibra cordate.

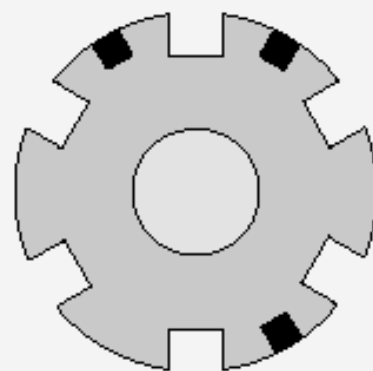
Vari tipi di nuclei per cavi ottici scanalati



Slotted core profile for
loose tube buffer of PA

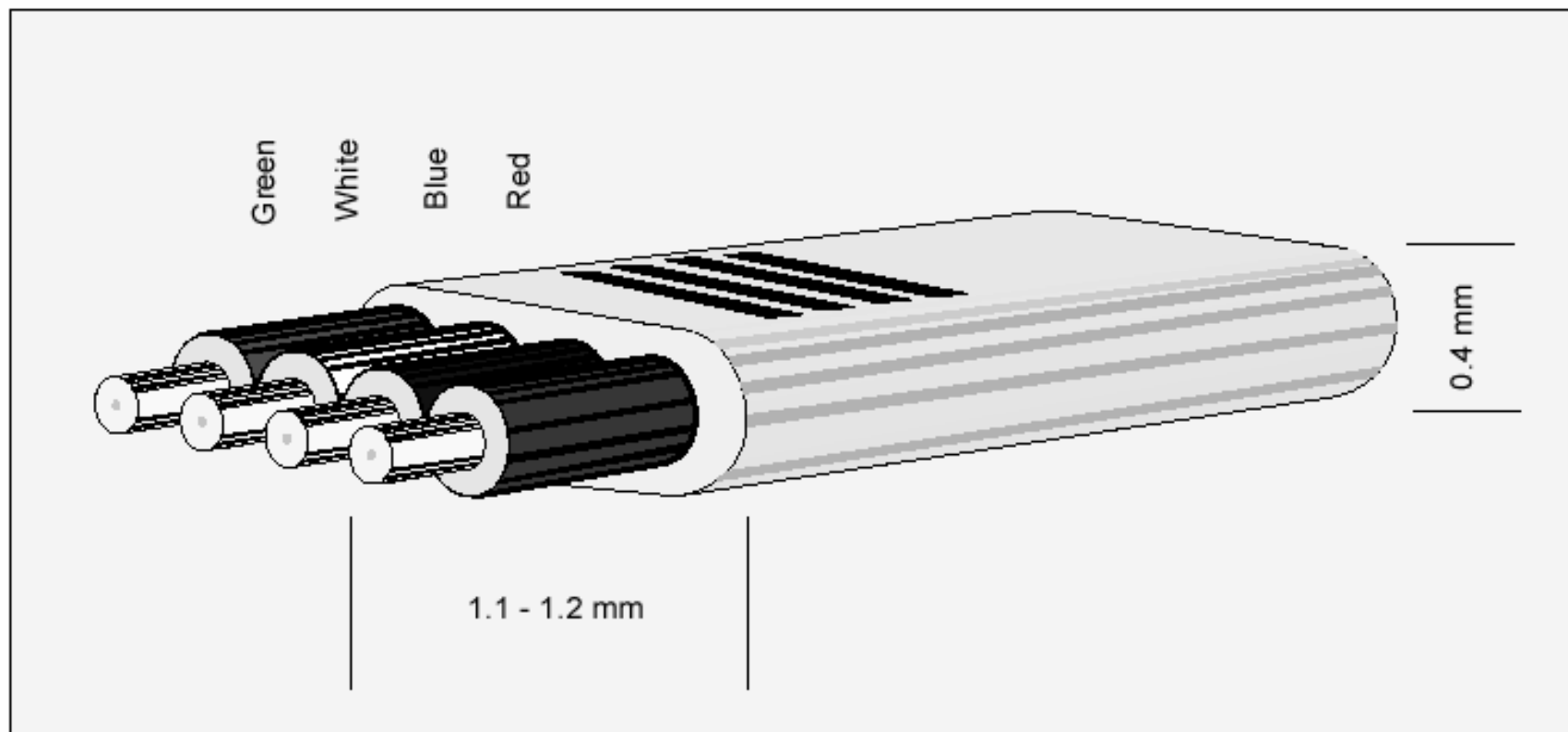


Slotted core profile
for tight buffered
fibers

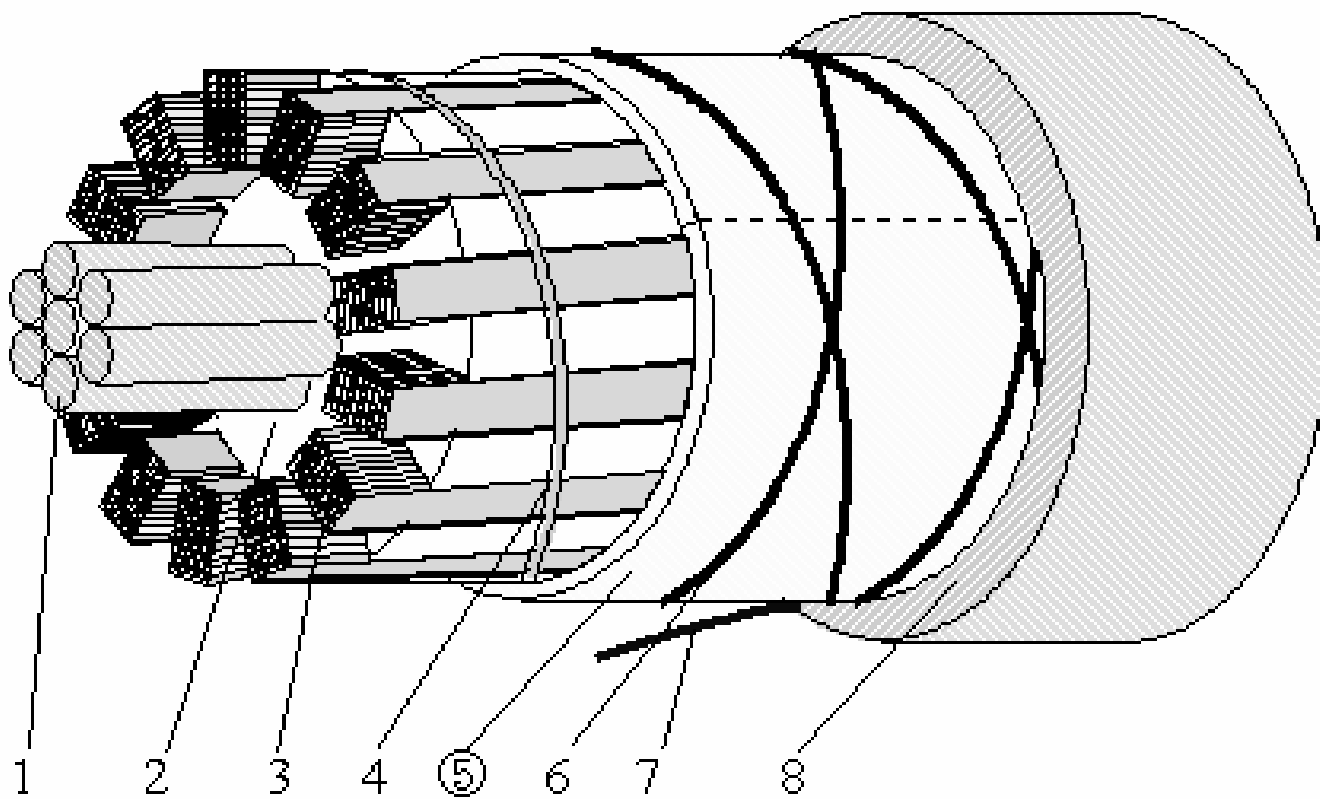


Slotted core profile
for cable with fiber
ribbons

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)

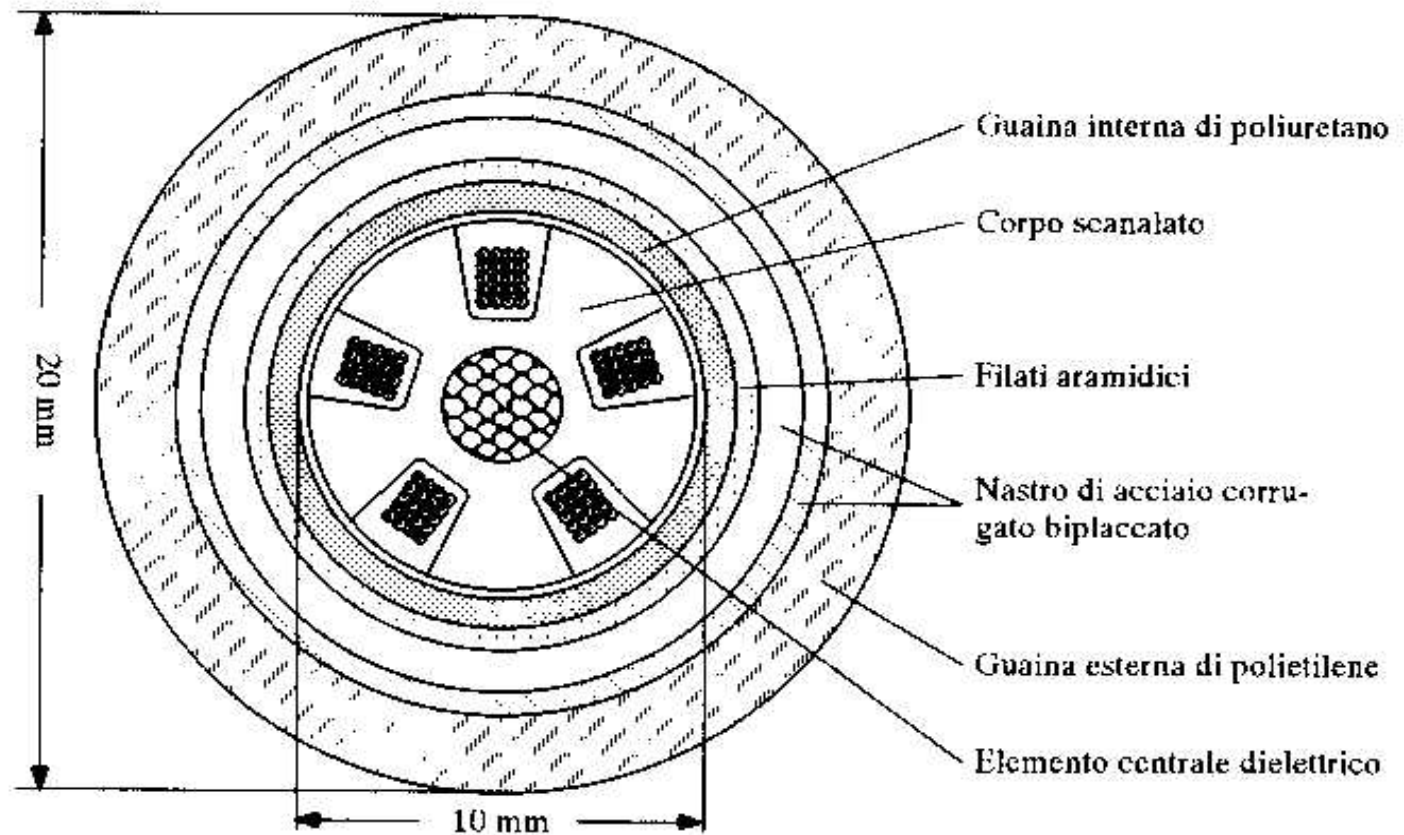
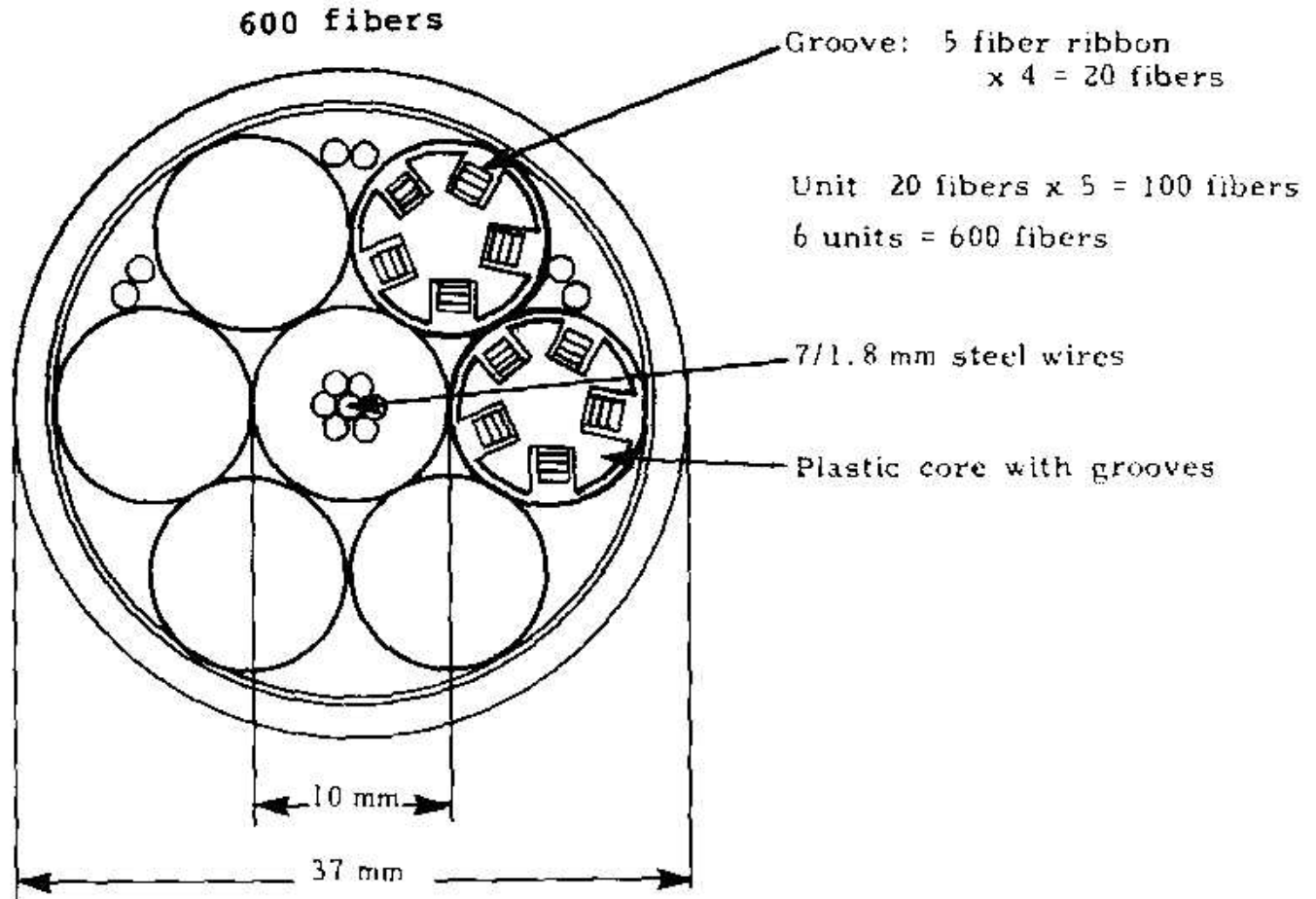


Fig. 3.37 Cavo ottico a nastri della capacità di 100 fibre.

Cavo multiplo con nastri di fibre

(600 fibre)



Esempio di cavo ottico sottomarino

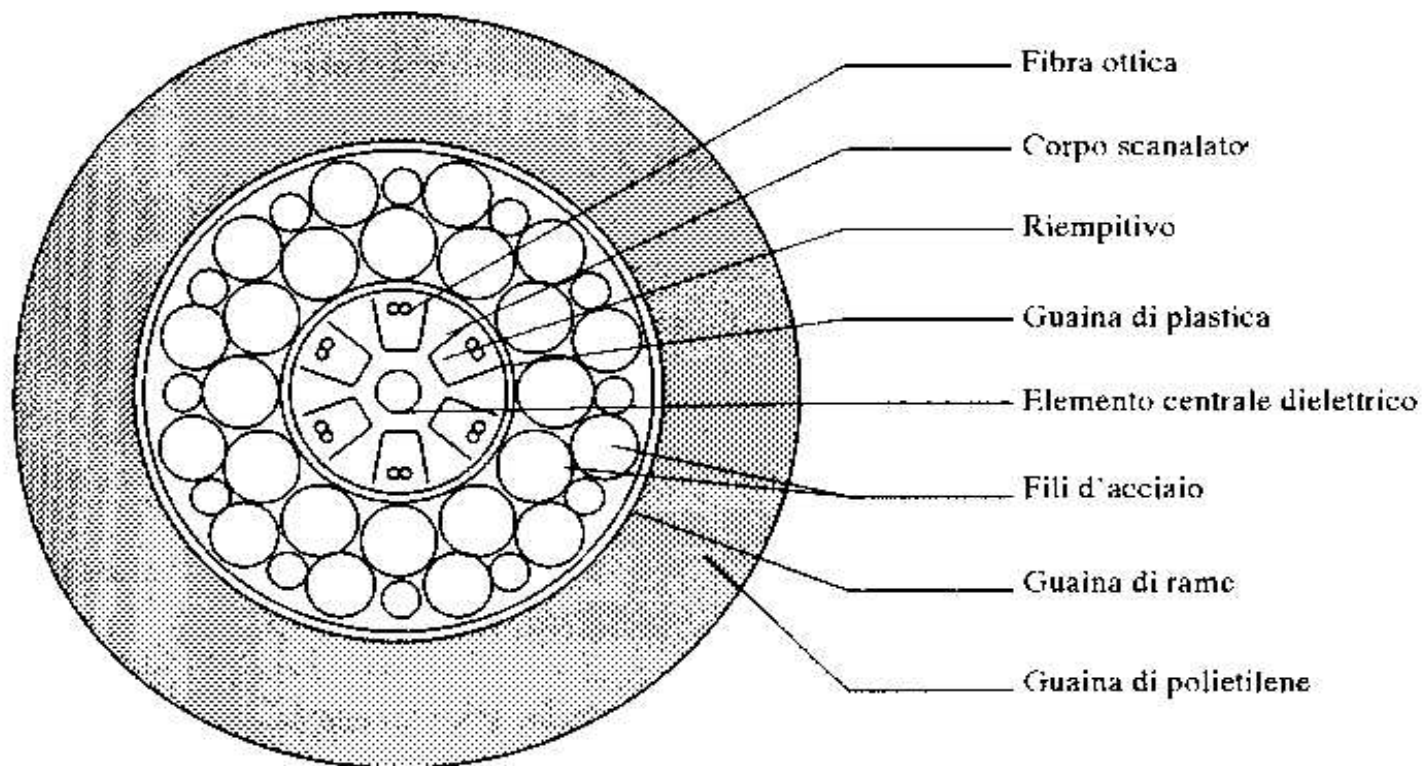


Fig. 3.41 Cavo ottico sottomarino da fondo.

Esempio di cavo ottico sottomarino

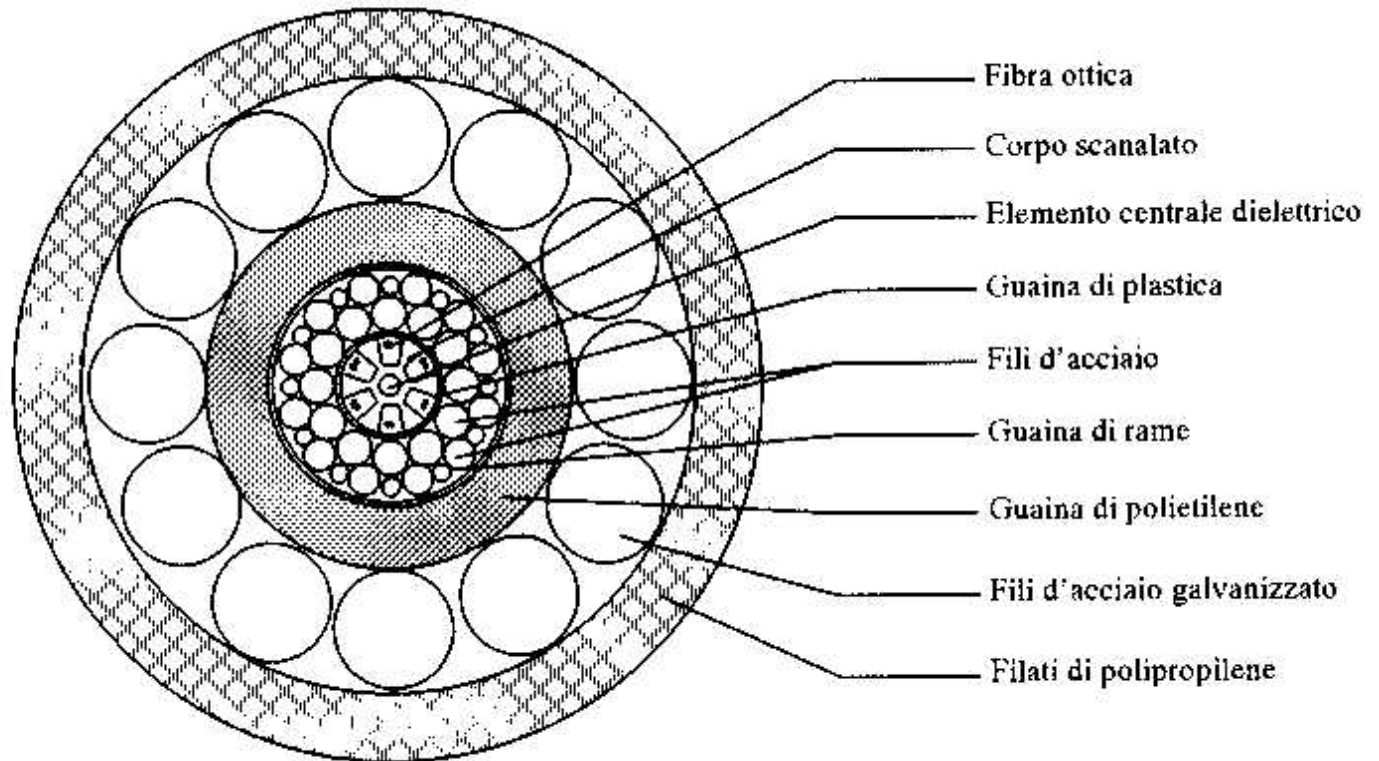
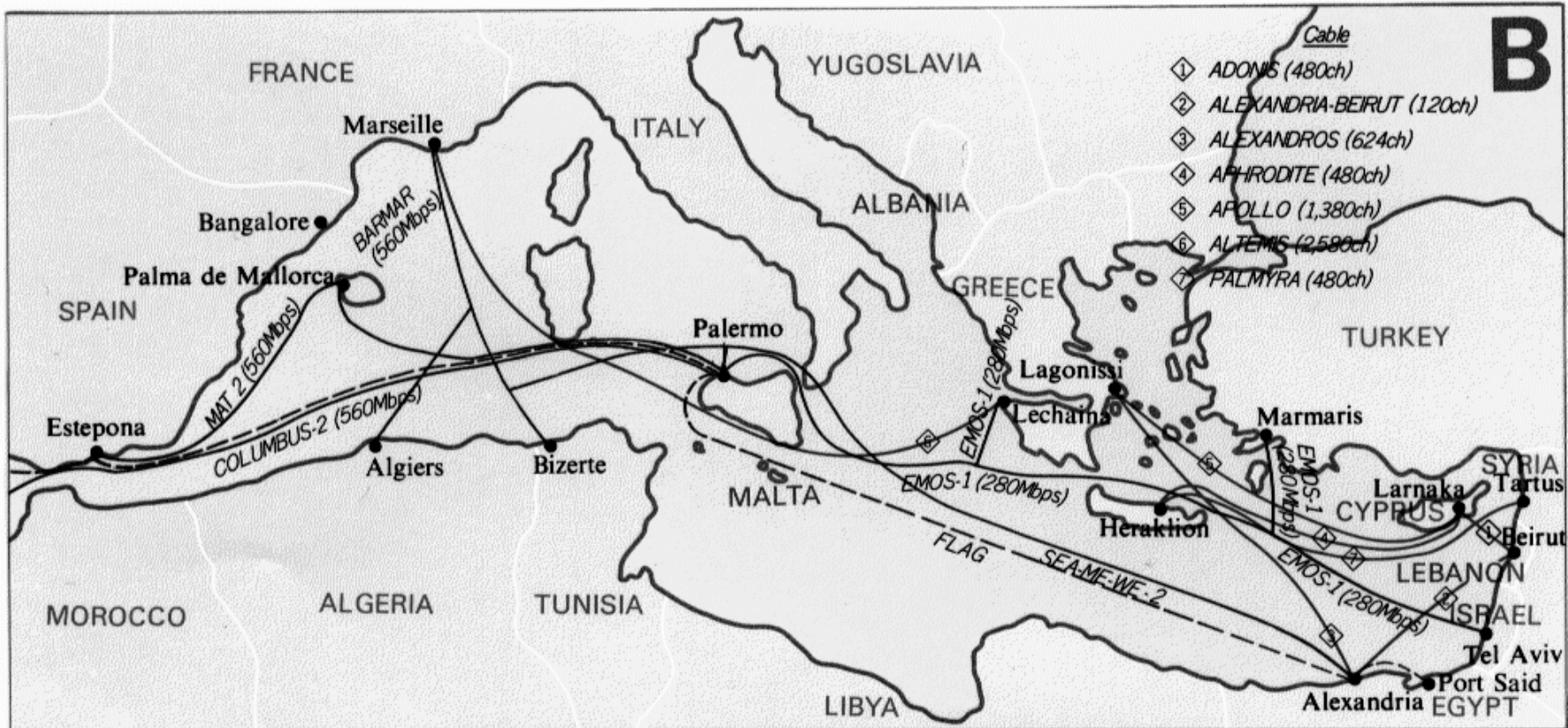


Fig. 3.42 Cavo ottico sottomarino armato.



Infrastruttura dei cavi a fibra ottica nella regione del mediterraneo (anno 1996)



Optical fibre submarine systems

