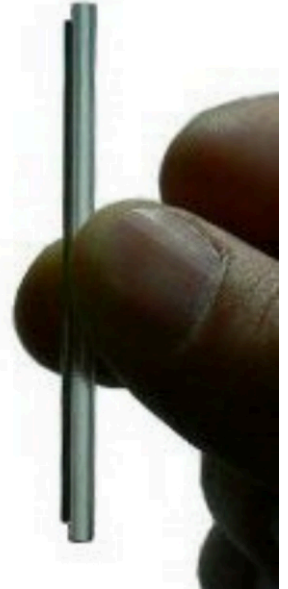




Fiber Optic Fusion Splice
Protection Sleeves
- Stiff fusion -

V24 HARD

V24 HARD series sleeves are applied in nearly all branches of fiber optic engineering. They are used to secure connections in fiber optic splice closures as well as 19" rack fiber optical distribution panels, stand and wall box. Stiffness of connection and quickness of assembly are the main advantages of this solution. Excellent climatic and thermal properties make it ideal for use in closed as well as open spaces. The main goals during design phase were: full protection of the fiber optic splices, stiffness of connection and short assembly time. Initial shrinking of the shield was taken into account during the production process to reduce the gap between the shields. This protects the internal tube and Pin from falling out as well as facilitates entering the optical fiber to hole. The final product is checked to meet the requirements set by ZN-96TPSA-006 standard of Polish Telecommunications. The sleeves we produce offer full protection of the fiber optic splices. They do not cause additional insert losses, and they offer protection against mechanical damage, pollution and weather conditions.



V24 series is characterized by stiffness of fusion, relatively small external diameter ($D=2.4\text{mm}$ after shrinking), reduced length (the shortest $L=20\text{mm}$), quickness of assembly (below 60s). The sleeve consists of a 1mm diameter PIN, a thin external tube and an internal tube with a 1.2mm hole. Such a solution enables using those sleeves to protect fibers with a 250um cover and a 900 um buffer. The internal tube is made from special material EVA with good adhesion to many materials and low solubility in water. It changes its consistency to semi-liquid in growth temperatures. It enables to eliminate air bubbles through filling up the spaces between external tube, the Pin and fiber optic cable. The Pin that stiffens the splice is made from polished stainless spring wire X10CRNi18-8 (USA SUS302) with heat extensibility indicator identical to that of optic fiber. This prevents from longitudinal stresses on the splice during heating process. Longitudinal stresses of the splice influence on growth a insert loss and a reflection loss. In extreme cases they may cause breaking the connection, which makes it necessary to repeat the splice procedure. External tube made from PEX, cross linked polyethylene. The material guarantees sustainability and resistance to stretching and puncture. It offers optimal air permeability, high gloss and smooth surface. It fulfills the requirements of UI224 and MIL-I-23053 standards.

▣ Application

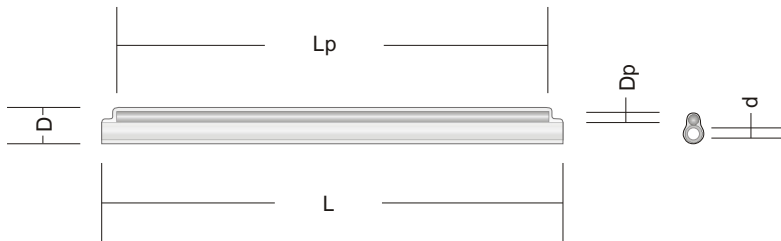
- » Fiber Optic Solution
- » Telecommunication, INTERNET
- » CATV, Cable TV, Monitoring
- » Industry
- » LAN, MAN, WAN



V24 HARD

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Dimension



L - Length after recovery
Lp - Pin length
D - Outer diameter after recovery
Dp - Pin diameter
d - Hole diameter before recovery

Part No.	L	Lp	D	Dp	d
V24-25-XX	25	21	2,4	1	1,2
V24-30-XX	30	26	2,4	1	1,2
V24-35-XX	35	31	2,4	1	1,2
V24-40-XX	40	36	2,4	1	1,2
V24-45-XX	45	41	2,4	1	1,2
V24-50-XX	50	46	2,4	1	1,2
V24-61-XX	61	57	2,4	1	1,2
V24-100-XX	100	96	2,4	1	1,2

← most popular

← most popular

Other size on special order. All dimensions in mm.
XX - Color

Available colors

00 - clear

01 - black
02 - brown
03 - red
04 - orange
05 - yellow
06 - green

07 - blue
08 - purple
09 - grey
10 - white
11 - pink
12 - turquoise



Product properties

- Outer diameter after recovery: \varnothing 2,4 mm +/- 0,1mm
- Hole diameter before recovery: \varnothing 1,2 mm
- Pin diameter: \varnothing 1 mm, polished stainless spring wire X10CRNI18-8 (USA SUS302)
- Minimum installation temperature: 110 °C
- Max installation time: 60 seconds
- Standard color: Clear
- Compliant norms: UI224, MIL-I-23053, ZN-96 TPSA-006
- RoHS compliant
- Packing: 100 pcs per bag (Others for special order)

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▣ Materials

The Fiber Optic Fusion Splice Protector consists of:

- A clear, outer heat-shrink material (tubing)
- A low temperature melt liner (EVA) to encapsulate the splice and provide mechanical strength;
- A stainless steel pin for reinforcing the splice where the cladding has been removed for splicing purposes.

▣ Construction

OUTER TUBE - PEX

- Heat shrink tubing realized with polyolefin
- Recovered internal diameter 1.3 mm max.
- Nominal wall thickness on recovery 0.25 mm
- Shrink temperature 110 °C
- Tensile strength (ASTM D2671): 10,4 MPa min
- Elongation (ASTM D2671): 200 % min

INNER TUBE - EVA

- Realized with ethylene vinyl acetate copolymer
- Hot melt adhesive
- Nominal wall thickness 0.35 mm
- Vicat softening point 66 °C
- Melting point 90 °C

STEEL PIN

- Realized with stainless steel: American Standard AISI/SAE 302
- Diameter: 1.00 mm ± 0.014 mm
- Finish: smooth and deburred

▣ Environmental Specification

- Operation condition (after shrink) [°C]: from - 55 to +125
- Storing Temperature [°C]: from - 25 to +60