

Heat Shrink Fiber Optic Splice Protectors

Series V25

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Part no.	D	L	d	Dp	Lp
V25-20-XX	2,5	20	1,2	1,0	20
V25-25-XX	2,5	25	1,2	1,0	21
V25-30-XX	2,5	30	1,2	1,0	26
V25-35-XX	2,5	35	1,2	1,0	31
V25-40-XX	2,5	40	1,2	1,0	36
V25-45-XX	2,5	45	1,2	1,0	41
V25-50-XX	2,5	50	1,2	1,0	46
V25-55-XX	2,5	55	1,2	1,0	51
V25-60-XX	2,5	60	1,2	1,0	56
V25-61-XX	2,5	61	1,2	1,0	57

All dimensions in mm. Other lengths are available on request.

D – Outer diameter after recovery

L – Length after recovery

d - Hole diameter before recovery

Dp – Pin diameter

Lp – Pin length XX – Color

00 - transparent

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AVAILABLE COLORS

7 – blue 8 – purple 9 – grey 0 – white 1 – pink 2 – turquoise

TRANSPARENT COLORS 51 – black

56 – green

57 – blue **58** – purple $\mathbf{52} - \mathsf{brown}$ 53 – red **59** – grey 54 – orange 55 – yellow 61 – pink

62 - turquoise

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Series V25

Heat Shrink Fiber Optic Splice Protectors

V25 HARD series sleeves are applied in nearly all branches optic fibers 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 the EN 50411-3-3 European Standard and GR-1380-CORE American Standard and ZN-96TPSA-006 standard of Polish Telecommunications. The sleeves we produce offer full protection to the fiber optic splices. They do not cause additional insert losses, and they offer protection against mechanical damage, pollution and weather conditions.

V25 series is characterized by stiffness of fusion, relatively small external diameter (D=2.5mm after shrinking), reduced length (the shortest L=20mm), quickness of assembly (below 60s). The sleeve consist of: a 1mm diameter PIN, a thin external tube and an internal tube with a 1.2mm hole. The protectors are dedicated to primary coated 250µm (fiber) or secondary coated 900µm (buffer). The internal tube is made from special material 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 the external tube, the Pin and fiber optic cable. The Pin that stiffens the splice is made from steel with a heat extensibility indicator identical to that of an optical fiber. This prevents from longitudinal stresses on the splice during heating process. Longitudinal stresses of the splice influence on growth an 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 material guarantees sustainability and resistance to stretching and puncture. It offers optimal air permeability, high gloss and smooth surface.

¤ Properties

- » Outer diameter after recovery: 2,5mm +/- 0,2mm *
- » Hole diameter before recovery: 1,2mm + 0,1mm *
- » Lenght of the protector after recovery: L +2/-1mm *
- » Pin diameter: 1,0mm
- » Minimum installation temperature: 110 °C
- » Max installation time: 60 sekonds
- » Standard color: transparent
- » RoHS compliant
- » Packing: 100pcs packed to one zip-bag (other packing method are available on request)

* - Tolerances in accordance with the requirements of EN 50411-3-3

¤ Application

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

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¤ Packing

» The carton contains 1000 pcs fiber optic splice protectors. Standard packing consists of 10 zip bags with 100pcs of protectors each.

Other packaging methods are available on request.



¤ Environmental Specification

- » Storage temperature and humidity: from 40 to +60°C, from 0 to 95%RH
- » Transport temperature and humidity: from 40 to +80°C, from 0 to 95%RH
- » Installation temperature and humidity: from 40 to +90°C, from 0 to 95%RH (no dew)
- » Operation temperature and humidity (after shrink): from 55 to +105°C, from 0 to 95%RH

¤ References

Protectors meet the requirements of the following standards:

EN 50411-3-3 European standard:

- » Criterion 8.3.1: EN 61300-3-3; Change in attenuation: 1310&1550nm δIL ≤ ±0,1dB per circuit of 5 protected fusion splices
- » Criterion 8.3.3: EN 61300-1-1; Vibration: 10-50Hz, amplitude 0,75mm, 15 cycles, 1550nm δIL ≤ ±0,2dB durin -, δIL ≤ ±0,1dB after - per circuit of 5 protected fusion splices
- » Criterion 8.3.5: EN 61300-2-5, Torsion: magnitude of load 2N, rotation angle +/- 180°, 10 cycles, 1310&1550&1625nm δIL ≤±0,1dB after per circuit of 5 protected fusion splices,
- » Criterion 8.3.6: EN 61300-2-4, Fiber/Cable retention: magnitude of load 2N, 60s, 1 cycle, 1310&1550&1625nm δIL ≤±0,1dB after per circuit of 5 protected fusion splices,
- » Criterion 8.3.7: EN 61300-2-7, Bending: magnitude of load 2N, 5s, 1 cycle, 1310&1550&1625nm δIL ≤ ±0,1dB after - per circuit of 5 protected fusion splices,
- » Criterion 8.3.8: EN 61300-2-17, Cold: -40°C, 96h, 1310&1550nm δIL ≤ ±0,2dB durin -, δIL ≤ ±0,1dB after - per circuit of 5 protected fusion splices
- » Criterion 8.3.9: EN 61300-2-18, Dry heat: +80°C 96h, 1310&1550nm δIL ≤ ±0,2dB durin -, δIL ≤ ±0,1dB after - per circuit of 5 protected fusion splices
- » Criterion 8.3.10: EN 61300-2-19, Damp heat: from +25°C to +55°C, 93%Rh, 4 cycles, 96h 1310&1550nm δ IL ≤ ±0,2dB durin -, δ IL ≤ ±0,1dB after per circuit of 5 protected fusion splices
- » Criterion 8.3.11: EN 61300-2-22, Change of temperature: from -40°C to +70°C, 12 cycles, 68h, 1310&1550nm δ IL ≤ ±0,2dB durin -, δ IL ≤ ±0,1dB after per circuit of 5 protected fusion splices
- » Criterion 8.3.12: EN 61300-2-26; Salt mist: concentration NaCl 5%, +35°C 96h 6.5÷7.2PH, 1 cycle, 1310&1550&1625nm δIL ≤ ±0,1dB after per circuit of 5 protected fusion splices, additionally, there are no noticeable significant differences in the appearance of the tested product, such as traces of rust, discoloration, deformation.

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