

# VR3 SERIES

**100%  
MADE IN  
GERMANY**

## PROPERTIES

**Resistance to:** Ultraviolet rays, ozone, mineral oils, fuels, salts, alkalis, alcohol, hydrocarbons, ketones, ether, termites and radioactive rays\*

**Flame resistance:** UL94 5VA (IEC 60695-11-20)  
UL94 V-0 (IEC 60695-11-10)  
IEC 61914 following IEC 60695-11-5  
Classification following DIN 5510, part 2 Flammability class: S3

**Thermal expansion:** 0.01% per 10°C temperature increase

**Tensile strength:** 120 N/mm<sup>2</sup>

**Flexural strength:** 210 N/mm<sup>2</sup>

## TEMPERATURE RANGE

**Ambient temperature:** down to -60°C\*

**Continuous operation:** up to 120°C

**Permitted short-term heating:** up to 220°C

**Operation life:** more than 45 years of maintenance- and failure-free operation

## MATERIAL

High-grade polyamide, fibreglass-reinforced, coloured black, with special UV protection, fully recyclable, self-extinguishing, low-smoke, zero halogen (LSZH), non-toxic, non-corrosive, non-metallic, non-magnetic, silicone free

## Applications:

For variable fastening of single- and multi-core cables. Universal application indoors and outdoors between -60°C and +120°C. Parallel and stacked formation. For vertical fastening of VPE cables we recommend the use of Elastic Inlays.\*

## Outer diameter of cables:

12 mm to 45 mm\*\*

## Dynamic resistance to short circuits:

10000 N

## Axial retention:

400 N

## Tightening Torque for fixing material:

Lowest bottom part: 20 Nm  
All other parts: 8 Nm

## Dimensions in mm

Type	D <sub>o</sub>	L <sub>1</sub>	L <sub>2</sub>	B	I	h	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	c	d <sub>o</sub>	Screw thread
VR3 12-45	12-45	224	228	53	75	51	105-130	159-209	213-288	75	13	M 12

D<sub>o</sub>: Outer cable diameter

\* For more information contact id-Technik, please.

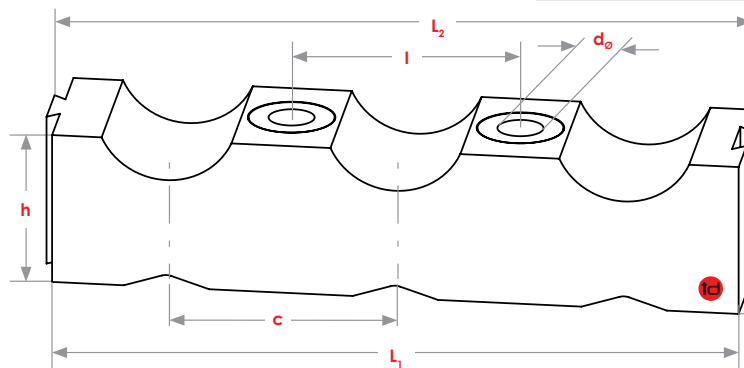
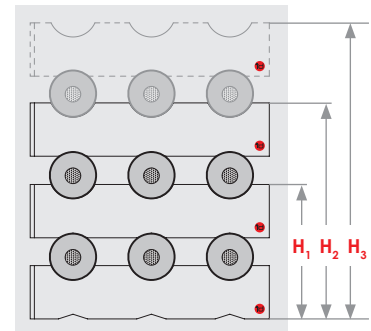
\*\* Contact id-Technik for diameter 12-21 mm, please.

\*\*\* Contact id-Technik for trailing cables (EPDM, rubber, etc.), please.

## Legal compliance

- Directive 2015/863/ EU (RoHS)
- Regulation (EC) No. 1907/2006 (REACH regulation)

## Mounting example



Dimensions for cable outer diameter 21-45 mm.

For further details, please contact id-Technik. Technical changes and errors reserved. Date 02/2024  
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