A different perspective for better buildings
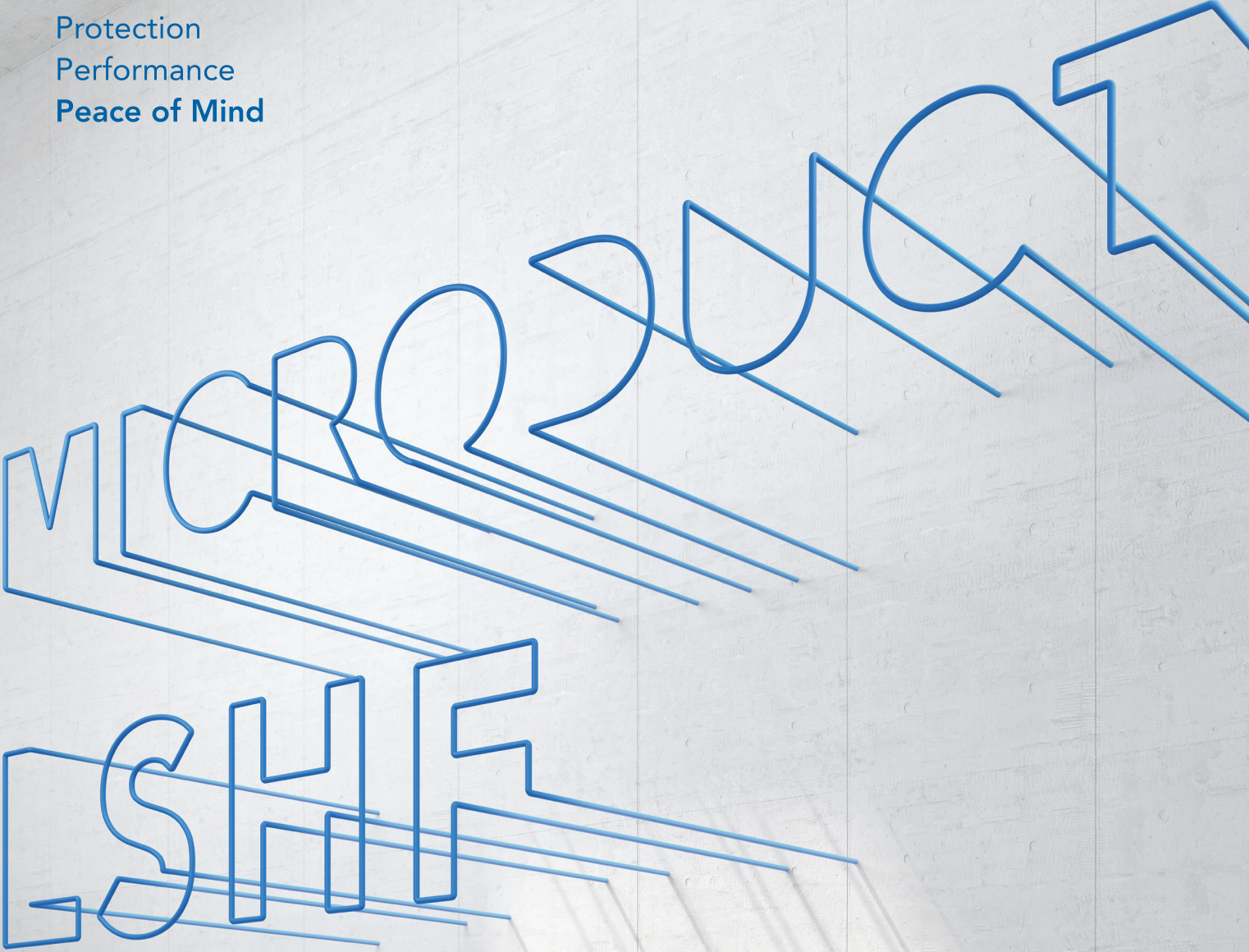
Protection
Performance
Peace of Mind

dura·line

An Orbia business.

Best-in-class fire performance for in-building communications networks

As we move towards an omni-connected world, high bandwidth and low latency are non-negotiables. Next-generation applications like the Metaverse, the Internet of Things (IoT), and driverless vehicles will rely on optical fibre everywhere – indoors as well as outdoors. But installing fibre in buildings, confined spaces, and mass transit corridors comes with unique deployment challenges and fire-safety considerations.

Low Smoke Halogen Free (LSHF) conduits and associated accessories are a flexible, scalable solution for in-building communications networks. Conforming to the most demanding European fire-performance standards, Dura-Line's LSHF range offers best-in-class fire retardance for unmatched safety and security in in-building FTTH, LAN, data center, and transport applications.

Where are LSHF products used?

MicroDucts LSHF are designed for use in settings where fire, smoke, and toxic fumes pose a risk to human life and critical electronic equipment, including but not limited to:

Houses and apartment blocks

Enclosed public spaces
(e.g., airports, stadia, malls)

Confined spaces
(e.g., control rooms)

Spaces with poor ventilation *(e.g., tunnels)*

Office buildings
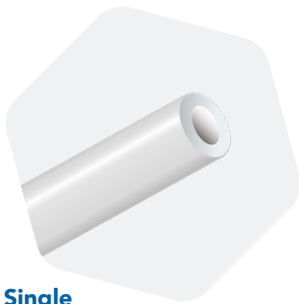
Hospitals

Data centres

Universities and schools

Key benefits

✓ **Best-in-class fire performance**
The only manufacturer of MicroDucts LSHF to offer Category B fire performance (B-s1, d0, according to DIN-EN 13501-1 + A1:2010)

✓ **Excellent raw materials**
Manufactured with only the most stringent V0 fire class resins, according to UL 94

✓ **Comprehensive installation options**
Approved for use in the widest range of in-building installation settings

✓ **Flexible, scalable cable management**
Simple maintenance and future capacity upgrades

✓ **Superior jetting performance**
Silicore® permanent lubricated inner lining with <0.1 static coefficient of friction

✓ **Independent verification**
From leading European technical organisations

Low Smoke Halogen Free Product Range

Single MicroDuct

Bundled MicroDuct

Colour
Off-white

Material
Low smoke halogen free

Size range
4 to 20 mm outer diameter

Bundle configurations
2-way, 3-way, 4-way, 7-way, 12-way, 19-way, 24-way

Inner lining
Silicore® low-friction lining with smooth finish

Pressure resistance (per MicroDuct)
Minimum 15 bar

Options
- Internal ribs
  (7 mm inner diameter and larger)
- Pre-installed optical fibre cable
- Pre-installed pulling rope

Standards
- **B-s1, d0** according to European Standard **DIN-EN 13501-1 + A1:2010**
- Very low smoke emissions, according to **DIN-EN 61034-2**
- Absence of halogenated compounds, according to **DIN-EN 50642**
- All resins comply with the strictest V0 classification according to **UL 94:2013**
- Production is monitored by VDE twice per year, according to **DIN EN IEC 61386 VDE 0605-22:2021-12.**

VDE

SKZ TESTED CERTIFIED INSPECTED

ISO 9001
ISO 14001

Accessories

Fire-Retardant connectors, reducers, and end-stops

Size range
5 to 20 mm

Mounting method
Simple push-fit installation
(no tools required)

Standards
EN 50411-2-8-2009
UL94 V0 (fire classification)

Orbia's Connectivity Solutions business, Dura-Line, produces more than 500 million meters of essential and innovative infrastructure per year to bring a world's worth of information everywhere. The business group produces telecommunications conduit, cable-in-conduit and other HDPE products and solutions that create physical pathways for fiber and other network technologies connecting cities, homes and people.

Contact us:

+420 577 199 111
+49 5931 9963608

Europe.sales@duraline.com
www.duraline-europe.com

◎ dura·line

An Orbia business.