# A different perspective for better buildings

Protection Performance **Peace of Mind** 



An Orbia Connectivity Solutions business.

Creating what connects us

# Best-in-class fire performance for inbuilding 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) MicroDuct products and associated accessories are a flexible, scalable solution for in-building communications networks. Conforming to demanding European standards, Dura-Line's LSHF range offers best-in-class fire performance when tested on gypsum plasterboard to EN 13501-1 for 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





**Office buildings** 



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



Hospitals



Confined spaces (e.g., control rooms)

		1
	¥	$\geq$
	1	•
Ŀ	フレ	-

Data centres



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



Universities and schools

## Key benefits

#### Best-in-class fire performance

MicroDucts LSHF achieve a best-in-class B, s1, d0 rating against EN 13501-1, when mounted on gypsum plasterboard, where:

- B means the product has little or no contribution to fire,
- s1 means the product achieves the lowest smoke production rating, and
- d0 means no flaming droplets were observed during testing.

#### Halogen free

LSHF product range has been tested according to EN 50642 for the content of halogens and it has been classified as halogen free

#### VDE marked

MicroDucts LSHF are tested and certified by VDE according to DIN EN IEC 61386-22 (VDE 0605-22):2021-12; EN IEC 61386-22:2021+A11:2021.

A classification code is printed on the products for easy identification of product mechanical properties, resistance to flame propagation and content of halogen

#### **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

Available with SILICORE<sup>®</sup>, a permanently lubricated, co-extruded inner lining that provides a lower inner coefficient of friction (<0.1) for improved cable jetting performance

#### Independent verification

From accredited European test laboratories

## Low Smoke Halogen Free Product Range



Single MicroDucts



Bundled MicroDucts

#### Colour

Natural (milky white)

#### Material

Fire retardant

#### Size range

5/3.5, 7/4, 7/5.5, 8/5.5, 10/6, 10/8, 12/8, 12/9.6, 12/10, 14/10, 16/12, 16/12.8

#### **Bundle options**

Various size and bundle combinations available

#### **Inner lining**

SILICORE®, a permanently lubricated, co-extruded inner lining that provides a lower inner coefficient of friction (<0.1) for improved cable jetting performance

**Designed for fill ratio** of minimum 50% to maximum 75%

#### Options

- Internal ribs
- Pre-installed pulling rope

#### **Standards for MicroDucts**

- Tested for reaction to fire in accordance with EN 13501-1 and classified as
  B-s1, d0 when mounted on gypsum plasterboard
- Tested and classed as halogen free according to **EN 50642**
- Tested and certified by VDE according to DIN EN IEC 61386-22 (VDE 0605-22):2021-12; EN IEC 61386-22:2021+A11:2021 with classification printed on products
- Production of MicroDucts LSHF is monitored by VDE



### Accessories

#### MicroDucts Fire Retardant Connectors, Reducers and End-stops



Size range 5 to 16 mm

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

**Standards** EN 1350-1, test pending as of May 2024

#### Contact us:

+420 577 199 111 +49 (0)5931 9963 620

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



Orbia's Connectivity Solutions business, Dura-Line, is a leading manufacturer and distributor of high-density polyethylene (HDPE) conduit, accessories, and other connectivity solutions for the telecommunications, transportation, and electrical markets.

With more than 50 years of experience and a long-standing reputation for the safety, efficiency, and durability of its products, Orbia Dura-Line produces more than 500 million metres of infrastructure annually, forming the physical pathways for fiber and network technologies that connect people worldwide.

© 2024 Dura-Line. All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under trademark- or other industrial or intellectual property rights.