

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 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) 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



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

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

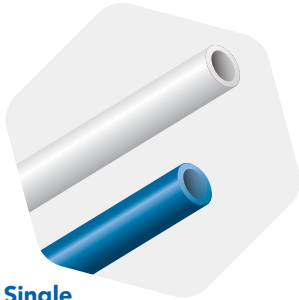
Available with SILICORE®, a permanently lubricated, co-extruded inner lining that provides a lower inner coefficient of friction (<0.1) for improved cable jetting performance



Independent verification

From accredited European test laboratories

Low Smoke Halogen Free Product Range



**Single
MicroDucts**



**Bundled
MicroDucts**

Colour

Available in 12 opaque RAL colors and natural color

Material

Fire retardant

Size range

5/3.5, 6/4, 7/3.5, 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, 20/16

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/IEC 63355**
- 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 13501-1



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.

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