

A different perspective for better buildings

Protection
Performance
Peace of Mind



 **dura·line**
An Orbia 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) 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

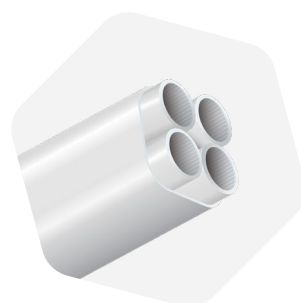
Key benefits

- ✓ **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**.



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.

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