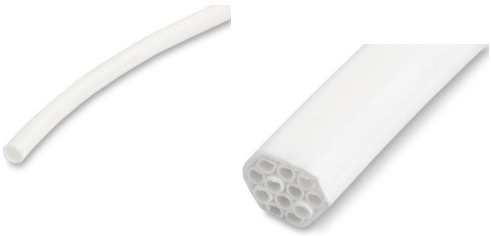
PRODUCT SPECIFICATION

CONNECT IT

EUROLAN Duct
Microduct Indoor 5/3,5mm



Assemblies of LFH microducts (m/d) as specification MHT 381 (5/3.5), each with low friction performance for fibre blowing. Each assembly is surrounded with a sheath of LFH material, giving excellent performance in a fire scenario: They are a) Low flammability b) Low smoke c) Low acid/fume d) Halogen-free. Does not contain PVC. These lightweight, metal-free, flexible products are intended for indoor installation, and may be pulled into suitable indoor ducts using low tension (listed). They are not for direct burial or aerial use.

Conduits from single to 19-way have limited levels of heat release, smoke and acid gas evolution and their reaction to fire performance should allow for their installation in combination with cables of Euroclass Cca, s1a, d2, a1 in accordance with EN13501-6 without degrading the overall reaction to fire performance of the overall infrastructure.

Ordering information		
Part number	E-number	Description
39P-I1-01-23WT	5044230	EUROLAN DUCT ID1 5/3,5 INDOOR LFH 500M
39P-I1-01-23WT-0	5045937	EUROLAN DUCT ID1 5/3,5 INDOOR LFH
39P-I1-04-23WT	5044231E	EUROLAN DUCT ID4 5/3,5 INDOOR LFH 1000M
39P-I1-04-23WT-0	5045938	EUROLAN DUCT ID4 5/3,5 INDOOR LFH
39P-I1-07-23WT	5044232	EUROLAN DUCT ID7 5/3,5 INDOOR LFH 1000M
39P-I1-07-23WT-0	5045939	EUROLAN DUCT ID7 5/3,5 INDOOR LFH
39P-I1-12-23WT	5044233	EUROLAN DUCT ID12 5/3,5 INDOOR LFH 1000M
39P-I1-12-23WT-0	5045940	EUROLAN DUCT ID12 5/3,5 INDOOR LFH
39P-I1-12-23BU	5045921	EUROLAN DUCT ID12 5/3,5 BLUE INDOOR LFH 1000M
39P-I1-12-23BU-0	5045953	EUROLAN DUCT ID12 5/3,5 BLUE INDOOR LFH
39P-I1-19-23WT	5044234	EUROLAN DUCT ID19 5/3,5 INDOOR LFH 1000M
39P-I1-19-23WT-0	5045941	EUROLAN DUCT ID19 5/3,5 INDOOR LFH
39P-I1-24-23WT	5044235	EUROLAN DUCT ID24 5/3,5 INDOOR LFH 1000M
39P-I1-24-23WT-0	5045942	EUROLAN DUCT ID24 5/3,5 INDOOR LFH

- CE- EN61386-22-1,2,2,0
- Tested according to IEC 60794-5
- Pressure tight up to 10 bar

PRODUCT SPECIFICATION

CONNECT IT

EUROLAN Duct
Microduct Indoor 5/3,5mm

Generic details: Single microduct	
Outer diameter	5,0 mm
Inner diameter	3,5 mm
Mass, nominal	15g/m
Min bending radius of primary duct*	50 mm
Max pull tension, single duct	60N (25kg)
Max air pressure for blowing	10 bar
Max blowing temperature	40°C
Operating temperature (not blowing)	-20°C to +60°C
Storage temperature	-25°C to +65°C
Storage of bundles and unprotected m/ds	Indoors and well sheilded from daylight

Generic details: Microduct bundle

- Extruded from 100% virgin compound with these characteristics:
- Tensile strength 11,5MPa, 102% retention after 7d at 110°C IEC60811-501
- Elongation at break 155%, 94% retenation after 7d at 110°C
- Cold elongation at -25°C minimum 43%
- No halogen content (chlorine, bromine, fluorine)
- No PVC content
- Oxygen Index (LOI) 40%

Product-specific details

Type 5/3,5mm	Outer Ø mm	Mass	Max. pull tension (installation)	Min. Bend radius mm
1-way duct	5,0	14,8 kg/km	0,15 kN / 15 kg	100
4-way duct	14,3	125 kg/km	0,4 kN / 40 kg	150
7-way duct	17,2	190 kg/km	0,6 kN / 60kg	220
12-way duct	22,6	285 kg/km	0,95 kN / 95 kg	300
19-way duct	26,9	438 kg/km	1,3 kN / 130 kg	350
24-way duct	32,5	591 kg/km	1,8 kN / 180 kg	500

After applying pulling tensions, allow time for the pulled product to relax.

EUROLAN Duct

Microduct Indoor 5/3,5mm

Testing		
Mechanical:		
Tensile	IEC 60794-1-2-method E1	Procedure to IEC 60794-5
Crush	IEC 60794-1-2-method E3	Procedure to IEC 60794-5
Impact	IEC 60794-1-2-method E4	Procedure to IEC 60794-5
Kink	IEC 60794-1-2-method E10	Procedure to IEC 60794-5
Bend	IEC 60794-1-2-method E11	Procedure to IEC 60794-5
EN 61386-22	Conduit systems for cable management	Particular requirements pliable conduit systems

Fire:

EN50575:2014 : Power, control and communication cables – Cables for general applications in construction works subject to reaction to fire requirements.

Heat Release	EN 50399
Vertical Burn	IEC 60332-1
Corrosive gas Emission	BS EN 60754-2: 2014
Smoke Emission	BS EN 61034-2: 2005

EN13501-6:2014 Fire classification of construction product and building elements

The vertical burn to IEC 60332-1 also meets the requirements of AS/CA S008:2020 for the following clauses:

5.6.17.1

5.6.4 Flammability

(a) The resistance to verical flame propagation test as specified in AS/NZS IEC 60332-1-2(4) including Annex A;