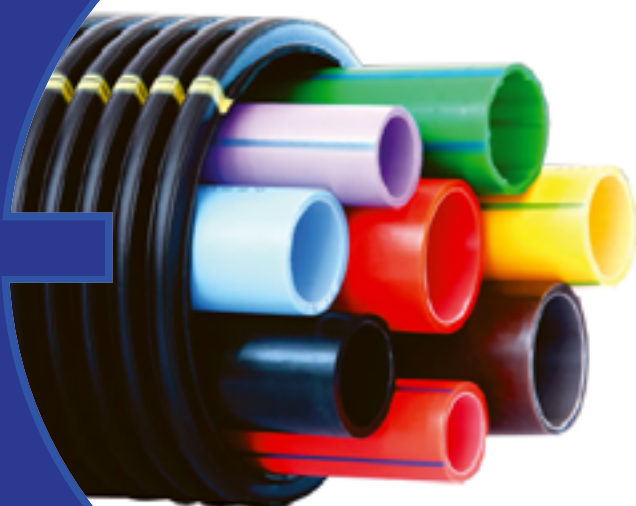




Hermesys

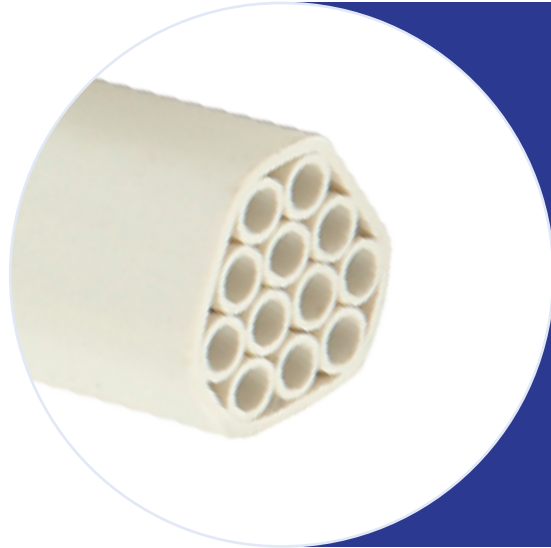


MicroDucts

Micro ducts & Bundle ducts

GryphonX™ Micro Ducts & Bundle Ducts

5/3.5mm LSOH + LSOH Microducts



GryphonX™ Micro Ducts LSOH product range is designed for in-building applications. They have low risk of flammability and are of low smoke emission.

The inner permanent silicone layer enables low friction performance. The Micro Ducts are manufactured with halogen free virgin HDPE.

SPECIFICATION

MICRO DUCT : 5/3.5mm		
Diameter	5.0 ± 0.1 mm (Outer)	3.5 ± 0.1 mm (Inner)
Sheath Thickness	0.75 ± 0.1 mm	
Sheath Material	LSOH	
Sheath Colour	Beige	
BUNDLED DUCT		
Colour & No. of Stripes	Optional	
Armoured	N/A	
Sheath Thickness	1.2 ± 0.3 mm	
Material of Ducts Sheath	LSOH	
Colour of Duct Sheath	Beige	

Number of Ducts	2 WAYS	4 WAYS	7 WAYS	12 WAYS	19 WAYS	24 WAYS	24+1 WAYS
Part No.	MTD-0535202Z	MTD-0535204Z	MTD-0535207Z	MTD-0535212Z	MTD-0535219Z	MTD-0535224Z	MTD-0535224RZ
Cross Section							
Bundled Duct Dia (mm)	12.0 * 7.0 ± 0.6	12.4 ± 0.6	17.0 * 15.6 ± 0.6	22.4 * 20.4 ± 0.6	27.0 * 24.3 ± 0.6	32.0 * 24.3 ± 0.6	31.5 * 30.3 ± 0.6
Min Bend Dia. (mm)	Outer Diameter * 10 times						

GryphonX™ Micro Ducts & Bundle Ducts

5/3.5mm LSOH + LSOH Microducts

PHYSICAL & MECHANICAL PROPERTIES

Characteristic	Test Method	Acceptance Criteria
MICRO DUCT		
Outer Diameter	ASTM D2122	5.0 ± 0.1 mm
Inner Diameter	ASTM D 2122	3.5 ± 0.1 mm
Wall Thickness	ASTM D 2122	0.75 ± 0.1 mm
Ovality	ASTM D 2122	≤ 5%
Standard Dimension ratio	SDR= Outer dia./Wall thickness	6.6
Pressurization	5 min @ 15 bar each micro duct	No damage, no leaks
Crush	IEC 60794-1-2 Method E3, 1000 N load, 60 sec, 1 hour recovery time.	No residual deformation > 15% of inner and outer diameter.
Tensile Strength	IEC 60794-1-2 Method E1 ASTM F 2160, ASTM D 638 (Type IV), speed 50mm/min	20 – 30 N/mm ²
Bend	IEC 60794-1-2 METHOD E11A	No residual deformation > 15% of inner and outer diameter.
Elongation at Break	IEC 60794-1-2 Method E1 ASTM F 2160 ASTM D 638 (Type IV), speed 50mm/min	Min 400%
Kink	IEC 60794-1-2 Method E8	Duct bent between 2 parallel supports 20*OD apart
Environmental Stress Crack Resistance	ASTM D 1693	No crack shall observed at 50 ± 2°C for 96 hours, when used 10% Igepal solution
Impact	IEC 60794-1-2 Method E4, 5 J Impact, 10 mm anvil, recovery time 1 hour.	No residual deformation > 15% of inner and outer diameter.
Repeated Bending	IEC 60794-1-2 Method E6 10*OD	No residual deformation > 15% of inner and outer diameter.
Co-efficient of Friction	Bell core, 750 mm Diameter, 450° loop, 5 kg tail mass	μ < 0.06
Heat Reversion	ISO 2505	110°C for 1 hrs (< 3%)
Colour	Visual inspection	See specification
Printing	Visual inspection	HERMESYS GRYPHONX LSOH MICRODUCT 5/3.5MM COIL NO. XXXXm MMY

GryphonX™ Micro Ducts & Bundle Ducts

5/3.5mm LSOH + LSOH Microducts

BUNDLED DUCT		
Wall thickness (Sheathing)	ASTM D 2122	1.2 ± 0.3 mm
Colour of Stripes	Visual inspection	See specification
Pressurization	5 min @ 15 bar each micro duct	No damage, No leaks
Kink	IEC 60794-1-21 METHOD E10, 10*OD	No residual deformation > 15% of inner and outer diameter.
Crush	IEC 60794-1-2 Method E3, 1500 N load, 60 sec, 1 hour recovery time.	No residual deformation > 15% of inner and outer diameter.
Impact	IEC 60794-1-2 Method E4, 5 J Impact, 10 mm anvil, recovery time 1 hour.	No residual deformation > 15% of inner and outer diameter.
Colour & Sequence	Visual inspection.	See specification
Tensile Strength at Yield	IEC 60794-1-2 Method E1 ASTM F 2160, ASTM D 638 (Type IV), speed 50mm/min	20 – 30 N/mm ²
Elongation at Break	IEC 60794-1-2 Method E1 ASTM F 2160, ASTM D 638 (Type IV), speed 50mm/mi	Min 400%
Bend Test	IEC 60794-1-2 Method E11A, 10*OD	No residual deformation > 15% of inner and outer diameter.
Printing	Visual inspection	HERMESYS GRYPHONX LSOH/LSOH MTD- XXXXXXXXXX MD <no. of way> * 5/3.5mm XXXXm MMYY



Hermesys

Hermesys Ltd

New Burlington House, 1075 Finchley Road,
London, United Kingdom, NW11 0PU

www.hermesys.it

E-mail: info@hermesys.it

©2015 Hermesys. All rights reserved.