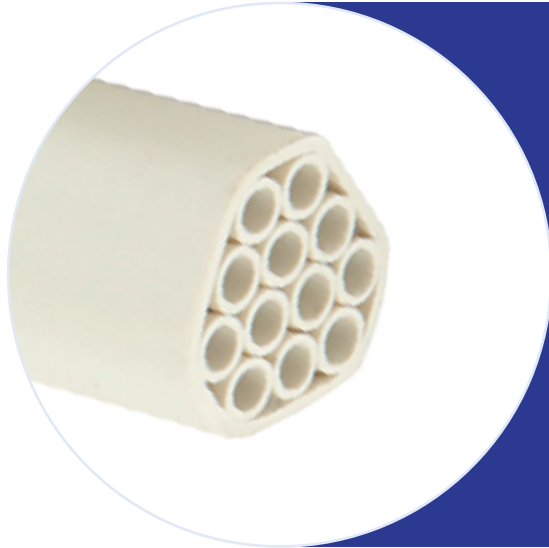


GryphonX™ Micro Ducts & Bundle Ducts

5/3.5mm LSOH/LSOH Indoor Bundled Microducts



GryphonX™ LSOH Air Blown Micro Ducts are designed for indoor applications like FTTH, Office, Airport etc.

The special developed inner permanent silicone layer enables low friction performance to make sure the GryphonX fiber units can be blown to the termination point as planning in a short time.








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						

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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

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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