

## Микроканальные системы Технические характеристики



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# DATA SHEET BUNDLED MICRO DUCT

## DATA SHEET : Bundled DB 10/12-Microduct

**1, 2, 4 and 7 x 10/12mm BUNDLED MICRO DUCT**  
Bundled-micro duct, smooth Silicon lined, High Density PE Outer Sheath  
**for**  
**Direct Buried Applications**

### Application

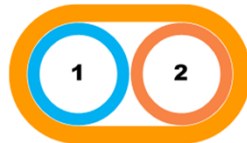
For blown applications of micro optical fibre cables up to 7.5 mm.

### Construction

Micro Duct	1 Way 2 Way 4 Way 7 Way	10/12mm bundled low friction silicon lined micro ducts. The tubes are identified by color. Other colors available on request. 1. Blue 1. Blue 2. Orange 1. Blue 2. Orange 3. Green 4. Brown 1. Blue 2. Orange 3. Green 4. Brown 5. Gray 6. White 7. Red
Outer sheath	High density polyethylene UV stabilized. Sheath Colors can be according to customer requirement Rodent Repellant can be added to outer sheath	



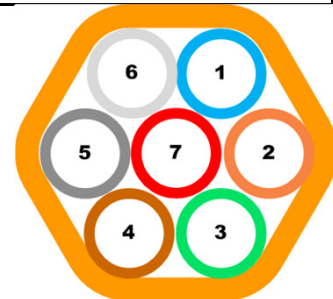
**1 Way**



**2 Way**



**4 Way**



**7 Way**

### Typical properties:

Micro Duct Type	1 Way	2 Way	4 Way	7 Way
Application	Direct Buried	Direct Buried	Direct Buried	Direct Buried
Nominal O.D (mm)	15	15.2 x 26.8	27.2	39.2
Min. Bend Radius (mm) 20 x O.D.	300	310	544	784
Nominal Weight (kg/km)	76	160	288	457
Maximum Installation Tension (N)	400	600	900	1200
Drum Length (m) * Other lengths available on request	1000	1000	1000	1000

# DATA SHEET MICRO DUCT



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MECHANICAL PERFORMANCE CRITERIA			
<b>1. Friction Co-efficient</b>		<b>Test Requirement</b>	Duct Length 5 m Loop Internal Diameter 750mm of 450° Optical Fibre Cable OD 6.2mm Weight 5kg Pulling Speed 500mm/min
		<b>Acceptance Criteria</b>	The calculated friction co-efficient shall be less than 0.1
<b>2. Resistance to Chemicals:</b>  <b>Rodents and Insects:</b>		<b>Test requirements:</b>	Duct Length 100mm Acid/Base Chemicals pH 2-12 Solvents Petrol, Acetone and Diesel Rodent Repellent Sheath
		<b>Acceptance Criteria</b>	The duct shall withstand chemical treatment
<b>3. Impact Resistance:</b> Test Method IEC 60794-1-2 Method E4		<b>Test requirements:</b>	Duct Length 200 mm Conditioning -10°C for 3hrs Anvil 25 mm ROC Weight 3 kg Free Fall Distance 221mm No. of Impacts 4 spaced equally
Test Load	1 Way = 6.5 Joules 2 Way = 6.5 Joules 4 Way = 6.5 Joules 7 Way = 6.5 Joules		
<b>4. Environmental Stress Cracking:</b>		<b>Test requirements:</b>	Strip Length 8mm wide x 38mm long No of strips 5 Chemical Teepol Blue 825 Temperature 50°C Duration of Test 2 hours
		<b>Acceptance Criteria</b>	No cracks or ruptures shall be visible.
<b>5. Kink/Bending Test</b>		<b>Test requirements:</b>	Duct Length <1000 mm Parallel Plates 20D Duration 10 min.
		<b>Acceptance Criteria</b>	No Kinking, Cracking, Splitting or breaking shall occur. A Ball with a 0.80 OD should pass freely through all the tubes after a period of 10 min.
<b>6. Crush Resistance:</b> Test Method IEC 60794-1-2 Method E3		<b>Test requirements:</b>	Duct Length 150 mm Compressive Load 1000 N Duration of Load 1 min.
Test Load	2 Way = 1000N 4 Way = 1000N 7 Way = 1000N	<b>Acceptance Criteria</b>	a Ball with a 0.80 OD should pass freely through all the tubes.
<b>7. Pressure Test:</b>		<b>Test requirements:</b>	Duct Length 5000 mm Water Pressure 12 Bar Duration of Test 10 min.
		<b>Acceptance Criteria</b>	Micro duct shall not burst

## Product Marking

InfraDuct	1 x 12/10 MD DB Duct	"year" + "unique number" + 5 digit length marking
InfraDuct	2 x 12/10 MD DB Duct	"year" + "unique number" + 5 digit length marking
InfraDuct	4 x 12/10 MD DB Duct	"year" + "unique number" + 5 digit length marking
InfraDuct	7 x 12/10 MD DB Duct	"year" + "unique number" + 5 digit length marking

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