



# Afrripipes

South Africa • Kenya • Middle East

## MicroDucts & Bundled MicroDucts





## MicroDuct

MicroDucts

Properties	5/3.5	7/3.5	8/5	10/8	12/10	14/10	16/13	18/15
Outer Diameter	5mm±0.1mm	7mm±0.1mm	8mm±0.1mm	10mm±0.1mm	12mm±0.1mm	14mm±0.1mm	16mm±0.1mm	18mm±0.1mm
Inner Diameter	3.5mm±0.1mm	3.5mm±0.1mm	5mm±0.1mm	8mm±0.1mm	10mm±0.1mm	10mm±0.1mm	13mm±0.1mm	15mm±0.1mm
Length on drums	2000m	2000m	2000m	2000m	2000m	2000m	1000m	1000m
Pressure rating	8 Bar	10 Bar	10 Bar	10 Bar	8 Bar	10 Bar	10 Bar	10 Bar
Material / Colour	Virgin HDPE (High density polyethylene) Colour as per TIA/EIA 598 standard or as per customer requirements							
Ovality	<5%							
Kink Test (as per industry Norm 20D)	Passes							
Chemical Resistance (ISO/TR10358)	Passes							
Marking	MicroDuct, Batch Number, Time, Length							
Coefficient of friction (Bellcore Test GR356)	<0.10							
Internal surface	Longitudinal ribs with silicone inner layer (or smooth)							
Environmental stress cracking (ASTM 1693)	No visible cracks or fracturing							

## Bundled MicroDuct

Bundled MicroDucts

Properties	2-way	4-way	7-way	12-way	24-way
Number and available size of MicroDucts	2 x 5/7/8/10/12/14/16/18	4 x 5/7/8/10/12/14/16/18	7 x 5/7/8/10/12/14/16	12 x 5/7/8	24 x 5/7/8
Length on Drums	1000m	1000m	1000m	1000m	1000m
Shape	Rectangular	Square	Hexagonal or Round	Hexagonal	Hexagonal
Material / Colour	Virgin HDPE (High density polyethylene) Colour as per TIA/EIA 598 standard or as per customer requirements				
Impact resistance (6.5J/ -10°C)	No visible cracks or fracturing				
Crush resistance (1000N for 1 minute)	Maximum of 80% of the inner duct dimension Steel ball passes freely through each Microduct				
Bending 20D	Maximum of 80% of the inner duct dimension Steel ball passes freely through each Microduct				
Chemical Resistance (ISO/TR10358)	Passes				
Marking	Bundled MicroDuct, Batch Number, Time, Length or as per customer requirements				
External surface	Free from holes, scratches				
Environmental stress cracking (ASTM 1693)	No visible cracks or fracturing				
	NB: Different configurations can be manufactured on request				

Handling and Storage	
Storage Temperature	-20°C to +60°C
Installation Temperature (recommended)	+15°C to +40°C
Ultra-violet resistance period	1 year
Installation	As per SABS 1200 LB

## MicroDuct Accessories

Product	5/3.5	7/3.5	8/5	10/8	12/10	14/10	16/13	18/15
Straight connector 12 Bar pressure rating	✓	✓	✓	✓	✓	✓	✓	✓
End Cap 12 Bar pressure rating	✓	✓	✓	✓	✓	✓	✓	✓
Non Pressurized end cap	✓	✓	✓	✓	✓	✓	✓	✓