

Afri Piping Systems (Pty) Ltd SPECIFICATIONS DOCUMENT

## MicroDucts & Bundled MicroDucts



The Afripipes MicroDuct Range of solutions caters to the FTTx Market. The larger 14/10mm Ducts are ideal for large fibre count cables, while the 8/5mm range is perfect for deployment of FTTh networks.









## MicroDuct™

## Technical Data

Properties:		5/3.5	7/3.5	8/5	10/8	12/10	14/10	16/13	18/15
<ul> <li>Outer Diameter</li> </ul>				8mm±0.1mm	10mm±0.1mm	12mm±0.1mm	14mm±0.1mm	16mm±0.1mm	18mm±0.1mm
<ul> <li>Inner Diameter</li> </ul>		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
<ul> <li>Length on Drums</li> </ul>		2000m	2000m	2000m	2000m	2000m	2000m	1000m	1000m
<ul> <li>Pressure Rating</li> </ul>	5mm±0.1mm	8 Bar	10 Bar	10 Bar	10 Bar	8 Bar	10 Bar	10 Bar	10 Bar
<ul> <li>Material/Colour</li> </ul>		V					d or as	per customer	requirements
<ul> <li>Ovality</li> </ul>		<5%	<5%	<5%	<5%	<5%	<5%	<5%	<5%
<ul> <li>Kink Test (As per Industry Norm 20D)</li> </ul>		Passes	Passes	Passes	Passes	Passes	Passes	Passes	Passes
• Chemical Resistance(IS	PE (High De	nsity Polythyle	ne), Colour a	s per TIA/EIA	598 Standar	Passes	Passes	Passes	
Marking     Afripipes, Size, Micr									
• Coefficient of Friction(Be	ellcor e Test GR356)	nal Surf	ace<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
• Inter Lon			ngitudinal Ribs with Silicone Inner layer (or Smooth)						
• Environmental Stress Cracking (ASTM 1693)			oD	uct, Batch I	Number, Tin	ne, Length			

Bundled MicroDuct	2-Way	4-Way	7-Way	12-Way	24-Way		
Number and Available Size of MicroDucts	Virgin HDPE (High [	Density Polythylene)	, Colour as per TIA/EIA 59	8 Standard	24x		
	5/7/8/10/12/14/16/18	5/7/8/10/12/14/16/18	3 5/7/8/10/12/14/16	5/7/8	5/7/8		
Length on Drums	1000m	1000m	1000m	1000m	1000m		
• Shape	Rectangular	Square	Hexagonal or Round	Hexagonal	Hexagonal		
Material/Colour	V						
• Impact Resistance (6.5J/-10°C)							
Crush Resistance (1000N for 1 Minute)	Maximum of 80%	of the inner Duct	dimension Steel ball p	asseseely throu	ugh each MicroDuct		
Bending 20D	Maximum of 80%	of the inner Duct	dimension Steel ball p	asseseely throu	ugh each MicroDuct		
Chemical Resistance(ISO/TR10358)	Passes	Passes	Passes	Passes	Passes		
• Marking	Bundled Mic	roDuct, Batch Nu	mber, Time, Length or	as per custome	er requirements		
External Surface		Fr	ee from holes, Scratch	es			
• Environmental Stress Cracking (ASTM 16	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					operties:		
Straight Connector 12 Bar Pressure Rating	5/3.5	7/3.5	8/5	10/8	12/10	14/10	16/13	18/15
• End Cap 12 Bar Pressure Rating	<i></i>	✓ ✓	~ ~	<i></i>	~	~ ~	~ ~	~
Non Pressurized End Cap	~	~	~	~	~	~	~	~

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