



# **npc**

NAMIBIA PLASTIC CONVERTERS



## PRODUCT CATALOGUE

### PIPE SOLUTIONS FOR

Water Mains • Irrigation • Sewer • Drain systems



Volume 1 - 2023

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# ABOUT US

As a member of the Plastic Packaging group of companies and operating under the name Namibia Plastic Converters (NPC), we are proud to state our contribution as an economic developer by providing solutions to our country's unique infra-structural network of water mains, irrigation, sewer and drain systems.

Our commitment to constantly provide newly developed products, services, and technology, makes us a preferred supplier to most of the leading merchants, farmers and developers in Namibia. Major contracts throughout Namibia are testimony to our success in providing quality products and services.

Our fleet ensures our clients timeous deliveries to all corners of Namibia.

We have a PVC extrusion line that enables us to produce PVC pipe up to 315mm. This is a first for the group as well as for Namibia.

Looking after the environment, NPC added solar solutions to their factory roof and is generating 250KVa to assist with the electricity demand. This coupled with our closed loop water system used in the factory enables us to avoid unnecessary demand on resources.

Our close ties with Namibia Polymer Recyclers, also a member of Plastic Packaging group of companies, enables a continuous supply of recycled pipe material being used in all our AGRO Poly ranges and this ensures that we reduce, re use and recycle.



“

NPC offers a  
Namibian  
solution to all  
infrastructural  
irrigation needs  
and we turn  
your problem  
into an  
opportunity

# DURAFLO PVC-u

pressure pipes

SANS:966-1:2019



## CHARACTERISTICS

Duroflo™, unplasticised PVC (uPVC or PVC-U) pressure pipe is a tried and tested system in the water reticulation sector.

Duroflo pressure pipes are manufactured to the SABS 966 Part 1 specification, incorporating the traditional design stresses of 10 and 12.5 MPa.

## APPLICATIONS

PVC pressure pipes are suitable for a wide range of pressure applications including:-

- Water supply
- Recycled water
- Irrigation
- Pressure sewerage
- Gas and industrial applications



DURAFLO  
PVC-u  
pressure pipes

SANS:966-1:2019



SPECIFICATIONS

NOM SIZE	O.D. MM		CLASS 4 WALL THICKNESS		MASS	CLASS 6 WALL THICKNESS		MASS	CLASS 9 WALL THICKNESS		MASS	CLASS 12 WALL THICKNESS		MASS	CLASS 16 WALL THICKNESS		MASS	LOE mm
	MIN	MAX	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	
16	16.00	16.20																
20	20.00	20.20													1.50	1.80	0.133	
25	25.00	25.20										1.50	1.80	0.173	1.90	2.20	0.213	
32	32.00	32.20							1.50	1.80	0.327	1.80	2.10	0.266	2.40	2.80	0.345	
40	40.00	40.20				1.50	1.80	0.200	1.80	2.10	0.342	2.30	2.70	0.423	3.00	3.40	0.540	70
50	50.00	50.20	1.50	1.80	0.360	1.80	2.10	0.433	2.20	2.60	0.517	2.80	3.20	0.642	3.70	4.20	0.833	70
63	63.00	63.20	1.50	1.80	0.450	1.90	2.20	0.562	2.70	3.10	0.788	3.60	4.10	1.050	4.70	5.30	1.336	75
75	75.00	75.20	1.50	1.80	0.533	2.20	2.60	0.775	3.20	3.70	1.113	4.30	4.90	1.475	5.60	6.30	1.885	80
90	90.00	90.30	1.80	2.20	0.772	2.70	3.10	1.416	3.90	4.40	1.625	5.10	5.80	2.097	6.70	7.50	2.721	85
110	110.00	110.30	2.20	2.60	1.150													
125	125.00	125.30	2.50	2.90	1.512													
160	160.00	160.40	3.20	3.70	2.492													
200	200.00	200.50	3.90	4.60	3.917													
250	250.00	250.60	4.90	5.60	5.991													
315	315.00	315.60	6.20	7.00	9.565													

NOM SIZE	O.D. mm		CLASS 6 WALL THICKNESS		MASS	CLASS 9 WALL THICKNESS		MASS	CLASS 12 WALL THICKNESS		MASS	CLASS 16 WALL THICKNESS		MASS	LOE mm
	MIN	MAX	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	
110	110.00	110.30	2.60	3.00	1.416	3.90	4.40	2.058	5.10	5.80	2.663	6.70	7.30	3.447	100
125	125.00	125.30	3.00	3.600	1.813	4.40	5.00	2.634	5.80	6.50	3.447	7.60	8.20	4.260	105
140	140.00	140.30	3.30	3.80	2.244	4.90	5.50	3.292	6.50	7.30	4.309	8.50	9.20	5.569	115
160	160.00	160.40	3.80	4.30	2.950	5.60	6.30	4.303	7.40	8.30	5.580	9.70	10.80	7.209	120
200	200.00	200.50	4.70	5.30	4.567	7.00	7.90	6.745	9.20	10.30	8.750	12.10	13.50	11.375	135
250	250.00	250.60	5.90	6.60	7.193	8.70	9.30	10.620	11.50	12.80	13.745	15.10	16.80	17.798	168
315	315.00	315.60	7.40	8.00	11.400	11.00	11.60	16.774	14.50	15.00	21.903	19.00	19.60	28.306	168

# POLYETHYLENE LDPE PIPE

agriculture



## CHARACTERISTICS

Low Density Polyethylene (LDPE) is a flexible and non-toxic form of pipe.

The main characteristics of LDPE are low temperature impact toughness, low-temperature impact resistance, good resistance to chemicals and good creep resistance.

- Durable and reliable
- Lightweight and flexible which makes it very easy to install
- More cost effective than other options available
- Resistant to corrosion and weather
- Superior flow
- Impact resistant
- Non-toxic
- Made from recycled materials and fully recyclable

## APPLICATIONS

Excellent for use in:-

- ✓ Micro drip systems
- ✓ Mini sprinklers
- ✓ Drip lines
- ✓ Pop-up sprinkler systems
- ✓ LDPE is also suitable for Farming and irrigation



# POLYETHYLENE LDPE PIPE

agriculture



## SPECIFICATIONS

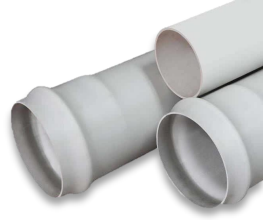
NOMINAL		INSIDE DIAMETER			AVERAGE OD MM	WALL THICKNESS			MASS KG / METER	CONTROL AVERAGE	
mm	CLASS	MIN	AVE	MAX		MIN	AVE	MAX		LC MM	UC mm
15	3	15.70	15.85	16.00	18.30	1.30	1.40	1.50	0.075	1.33	1.43
	6				18.90	1.60	1.70	1.80	0.083	1.65	1.75
20	3	20.50	20.7	20.90	23.30	1.40	1.50	1.60	0.102	1.43	1.53
	6				24.30	1.90	2.00	2.10	0.133	1.95	2.05
25	3	26.50	26.75	27.00	29.70	1.60	1.70	1.80	0.150	1.65	1.75
	6				31.40	2.45	2.65	2.70	0.236	2.50	2.65
32	3	34.00	34.3	34.60	37.40	1.70	1.80	1.90	0.202	1.75	1.85
	6				39.40	2.70	2.82	2.95	0.335	2.75	2.90
40	3	40.00	40.4	40.80	44.00	2.00	2.10	2.20	0.270	2.05	2.15
	6				46.40	3.00	3.15	3.30	0.420	3.25	3.45
50	3	51.20	51.65	52.10	56.40	2.60	2.75	2.90	0.450	2.65	2.85
	6				59.20	4.00	4.20	4.40	0.720	4.10	4.30
65	3	61.80	62.35	62.90	68.00	3.10	3.25	3.40	0.640	3.15	3.30
	6				71.80	5.00	5.15	5.30	1.065	5.15	5.20
80	3	77.20	77.75	78.30	84.80	3.80	3.95	4.10	0.953	3.85	4.00
	6				89.60	6.20	6.40	6.60	1.640	6.25	6.50





# PVC-u SOLID WALL SEWER & DRAINAGE pipes

FREEFLO SANS : 791 : 2014



## CHARACTERISTICS

NPC uPVC Solid-Wall sewage and drainage pipes are performance proven for a broad range of applications for non-pressure drainage of sewer and surface water, where toughness, dimensional stability, stiffness and reliable joints are required.

- Available with plain ends or with integral rubber ring socket.
- Resilient and offers high resistance to impact to minimize site breakages and other failures.
- Affordable high-end installation
- Corrosion and chemical resistant
- Leak-tight joints
- Excellent flow rates

## APPLICATIONS

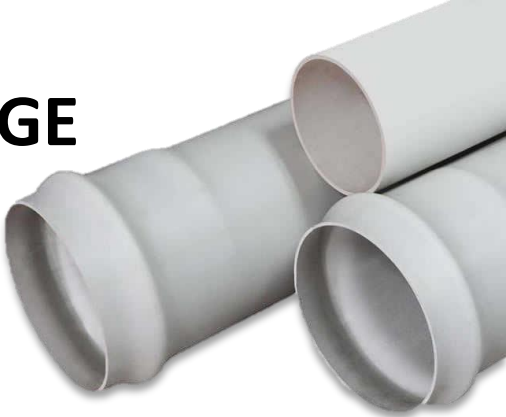
u-PVC solid wall drainage and sewer pipes are intended for buried gravity drainage sewerage pipe systems for transportation of soil and waste discharge of domestic and industrial origin.

*Photo for illustration purposes only.  
Colour of product according to SANS 791 standard.*



# u-PVC SOLID WALL SEWER & DRAINAGE pipes

FREEFLO SANS : 791 : 2014



## SPECIFICATIONS

NOM SIZE mm	O.D mm		OVALITY mm		NORMAL DUTY (CLASS 51)				MASS KG/m	HEAVY DUTY (CLASS 34)				MASS KG/m
	EXC		VAR	EXC	VAR		EXC			VAR		EXC		
	MIN	MAX	MAX	MAX	MIN	AVE	MIN	MAX		MIN	AVE	MIN	MAX	
110	110.0	110.3	1.40	2.80	2.20	2.50	2.20	2.80	1.143	3.00	3.15	3.00	3.50	1.546
160	160.0	160.4	2.00	4.00	3.20	3.36	3.20	3.80	2.517	4.70	4.90	4.70	5.40	3.515
200	200.0	200.4	2.80	4.80	3.90	4.10	3.90	4.50	3.683	5.90	6.20	5.90	6.70	5.513
250	250.0	250.8	3.00	6.00	5.00	5.25	5.00	5.70	5.900	7.40	7.80	8.30	8.30	8.530
315	315.0	316.0	3.80	7.60	6.20	6.44	6.20	6.68	9.130	9.20	9.52	9.20	10.40	13.550

# PVC SOIL, VENTILATION & waste pipes

FREEFLO NEW SPEC SANS: 967 : 2018



## CHARACTERISTICS

We offer PVC soil, ventilation and waste pipes for aboveground sanitation, conveying soil into underground drainage systems.

Our soil, ventilation and waste pipes are specially formulated for resistance to sunlight and long-term outdoor exposure.

Furthermore, PVC is unaffected by coastal or industrial atmospheres, or using domestic cleaning agents.

- White in color
- Corrosion resistance
- Excellent flow rates
- Tough and offers resistance to impact
- UV prevents weathering and oxidation
- Neat in appearance
- Years of service under normal operating conditions

## APPLICATIONS

- Water plumbing & wastewater plumbing
- Waste handling & control
- Rainwater management
- Industrial
- Chemical handling
- Building infrastructure
- Household chemical handling

# PVC SOIL, VENTILATION & waste pipes

FREEFLO NEW SPEC SANS: 967 : 2018



## SPECIFICATIONS

NOM SIZE mm	O.D. MM		OVALITY MM		WALL THICKNESS				MASS KG / 6 METERS	MASS KG / 4 METERS
	EXC		VAR	EXC	VAR		EXC			
	MIN	MAX	MAX	MAX	MIN	AVE	MIN	MAX		
40	40.00	40.30	0.30	1.00	2.00	2.10	2.00	2.40	2.550	1.700
50	50.00	50.30	0.30	1.20	2.20	2.30	2.20	2.60	3.100	2.100
75	75.00	75.30	0.30	1.80	2.20	2.30	2.20	2.60	6.740	
110	110.00	110.30	0.30	2.80	3.20	3.36	3.20	3.80	10.000	
160	160.00	160.40	0.40	4.00	3.30	3.46	3.30	3.90	15.000	



# HDPE PIPE

high density polyethylene

SANS 4427-2 : 2008



## CHARACTERISTICS

### **CORROSION RESISTANCE**

Since HDPE pipes do not rust, rot or decompose, it is not as susceptible to corrosion and therefore significantly extends the pipe's life.

### **EFFICIENT AND EFFECTIVE JOINTS**

HDPE pipes are connected through heat-fusion welding, making them permanently leak-free

### **TRENCHLESS INSTALLATION POSSIBLE**

This method allows for much less land disruption, making it a popular choice near rivers, lakes and busy roads.

### **ECO FRIENDLY**

HDPE pipes have less of an environmental impact than other pipes

## APPLICATIONS

HDPE pipes are used for carrying potable water, wastewater, hazardous waste and chemicals. It has long been a favored material in the oil, gas and mining industries and continues to increase in popularity.

# HDPE PIPE

high density polyethylene

SANS 4427-2 : 2008



## SPECIFICATIONS

NOMINAL SIZE	O.D. MM		CLASS 6 WALL THICKNESS		MASS	CLASS 10 WALL THICKNESS		MASS
	MIN	MAX	MIN	MAX	KG/m	MIN	MAX	KG/m
20	20.00	20.30				2.00	2.30	0.120
25	25.00	25.30				1.90	2.20	0.140
32	32.00	32.30	2.00	2.30	0.200			
40	40.00	40.40	2.40	2.54	0.290			

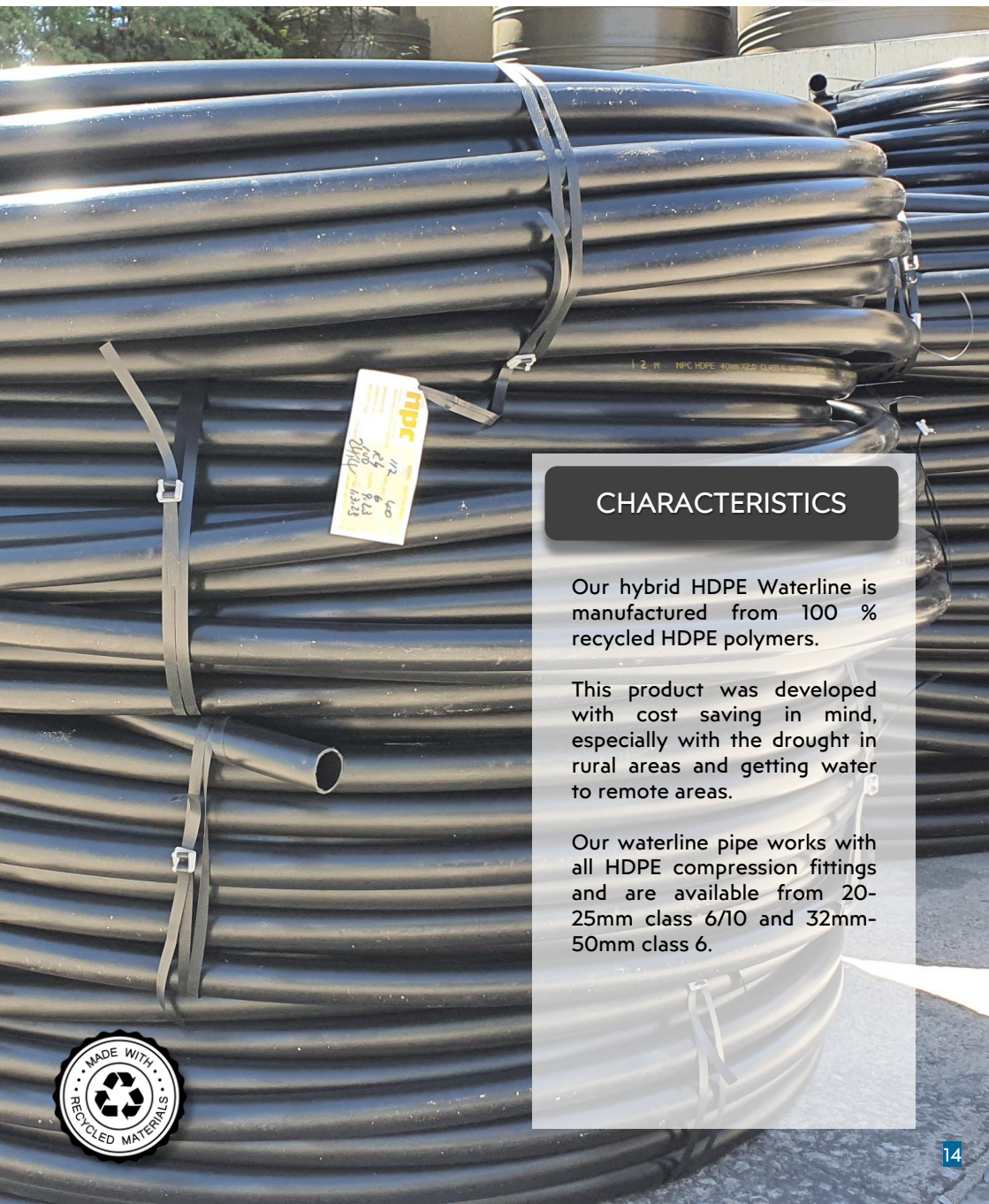
PE 100 OD MIN	SDR	PN	SDR 26						SDR 21						SDR 17						SDR 13.6								
	OD	Oval	6						8						10						12.5								
			WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS							
			MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m							
16	16.30	1.20																											
20	20.30	1.20																											
25	25.30	1.20																											
32	32.30	1.30													2.00	2.15	2.30	27.90	0.19	2.40	2.60	2.80	27.00	0.23					
40	40.30	1.40													2.00	2.15	2.30	35.9	0.25	2.40	2.60	2.80	35.00	0.29	3.00	3.25	3.50	33.70	0.36
50	50.30	1.40	2.00	2.15	2.30	45.60	0.33	2.40	2.60	2.80	45.00	0.37	3.00	3.20	3.40	43.80	0.45	3.70	3.95	4.20	42.30	0.55							
63	63.40	1.50	2.50	2.70	2.90	57.80	0.49	3.00	3.20	3.40	56.80	0.58	3.80	4.05	4.30	55.10	0.72	4.70	5.00	5.30	53.20	0.88							
75	75.50	1.60	2.90	3.10	3.30	69.10	0.67	3.60	3.85	4.10	67.60	0.83	4.50	4.80	5.10	65.70	1.02	5.60	5.95	6.30	63.40	1.24							
90	90.60	1.80	3.50	3.75	4.00	82.80	0.98	4.30	4.60	4.90	81.10	1.19	5.40	5.75	6.10	7.80	1.46	6.70	7.10	7.50	76.10	1.78							
110	110.70	2.20	4.20	4.50	4.80	101.40	1.43	5.30	5.65	6.00	99.10	1.78	6.60	7.00	7.40	96.40	2.18	8.10	8.60	9.10	93.20	2.63							

	SDR		SDR 11						SDR 9						SDR 7.4					
PE100		PN	16						20						25					
OD	OD	Oval	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS			
MIN	MAX	mm	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m			
16	16,3	1,2						2,00	2,15	2,30	11,85	0,09	2,30	2,50	2,70	11,15	0,1			
20	20,3	1,2	2,00	2,15	2,30	15,90	0,12	2,30	2,50	2,70	15,15	0,13	3,00	3,20	3,40	13,75	0,16			
25	25,3	1,2	2,30	2,50	2,70	20,20	0,17	3,00	3,20	3,40	18,80	0,21	3,50	3,75	4,00	17,70	0,24			
32	32,3	1,3	3,00	3,20	3,40	25,80	0,28	3,60	3,85	4,10	24,50	0,33	4,40	4,70	5,00	22,80	0,39			
40	40,3	1,4	3,70	3,95	4,20	32,30	0,43	4,50	4,80	5,10	30,60	0,51	5,50	5,85	6,20	28,50	0,6			
50	50,3	1,4	4,60	4,90	5,20	40,40	0,67	5,60	5,95	6,30	38,30	0,79	6,90	7,30	7,70	35,60	0,94			
63	63,4	1,5	5,80	6,15	6,50	50,90	1,06	7,10	7,55	8,00	48,10	1,26	8,60	9,10	9,60	45,00	1,48			
75	75,5	1,6	6,80	7,20	7,60	60,90	1,47	8,40	8,90	9,40	57,50	1,78	10,30	10,90	11,50	53,50	2,11			
90	90,6	1,8	8,20	8,70	9,20	72,90	2,14	10,10	10,70	11,30	68,90	2,56	12,30	13,00	13,70	64,30	3,02			
110	110,7	2,2	10,00	10,55	11,10	89,30	3,17	12,30	13,00	13,70	84,40	3,81	15,10	15,95	16,80	78,50	4,53			



# NPC WATER

pipe



## CHARACTERISTICS

Our hybrid HDPE Waterline is manufactured from 100 % recycled HDPE polymers.

This product was developed with cost saving in mind, especially with the drought in rural areas and getting water to remote areas.

Our waterline pipe works with all HDPE compression fittings and are available from 20-25mm class 6/10 and 32mm-50mm class 6.





# NPC WATER

pipe



## SPECIFICATIONS

NOMINAL SIZE	O.D. MM		CLASS 6 WALL THICKNESS		INNER DIAMETER	MASS  KG/M	WEIGHT PER COIL  KG/COIL	CLASS 10 WALL THICKNESS		INNER DIAMETER	MASS  KG/M	WEIGHT PER COIL  KG/COIL
	MIN	MAX	MIN	MAX				MIN	MAX			
20	20	20.30	1.40	1.60	17.0	0.95	9.5	1.80	2.00	16.0	0.11	11
25	25	25.30	1.50	1.70	21.6	0.125	12.5	1.80	2.10	20.8	0.15	15
32	32	32.30	1.80	2.10	28.0	0.20	20.0					
40	40	40.40	2.00	2.30	35.60	0.24	24.0					
50	50	50.50	2.50	2.80	44.5	0.38	38.0					



# CABLE DUCT PIPE

## PVC



### CHARACTERISTICS

PVC cable duct pipes provide a long-lasting, cost-effective solution for a huge range of applications.

This product is extremely chemically resistant to corrosive fumes, gasses and fluids. Seamless, large diameter extrusion guarantees smoothness, uniformity and dimensional stability. Its lightweight feature makes it ideal for fabrication, handling and installation.

- ✓ Strong and durable
- ✓ Rustproof and UV resistant
- ✓ Non-toxic
- ✓ Easy to install and lightweight
- ✓ Cost-effective
- ✓ Leak-resistant
- ✓ Maximum Flow

### APPLICATIONS

For use in:-

- Factory and industrial applications
- Telephone cables
- High voltage underground cables
- Street and domestic power supplies
- TV & radio cables



# CABLE DUCT PIPE

## PVC



### SPECIFICATIONS

#### NPC PIPE - BLACK

NOM SIZE	OUTSIDE DIAMETER MM		WALL THICKNESS mm			MASS KG / 6 METERS
mm	MIN	MAX	MIN	AVE	MAX	
50	50.00	50.30	1.50	1.65	1.80	2.4
75	75.00	75.30	1.60	1.75	1.90	4.2
110	110.00	110.30	2.20	2.50	2.80	7.2
160	160.00	160.40	3.20	3.45	3.70	15.0
200	200.00	200.40	3.90	4.25	4.60	22.4

#### CLASS 6

NOM SIZE	OUTSIDE DIAMETER mm		WALL THICKNESS MM		MASS KG / 6 METERS
mm	MIN	MAX	MIN	MAX	
110	110.00	110.30	2.60	3.00	8.140
160	160.00	160.40	3.80	4.30	17.400
200	200.00	200.50	4.70	5.30	26.900







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