



HDPE PIPES FOR CABLE PROTECTION

- Double Wall Corrugated Pipes



WHO ARE WE?

Hebeish Group is the mother company of 4 subsidiary companies, completing each other to provide our customer with full HDPE piping solutions. Our aim is to deliver the highest quality in order to ensure the best outcome for our customers.

We manufacture comprehensive plastic piping & hoses solutions for the building, civil, mining, and industrial market. Our products range from **high density polyethylene (HDPE)** piping systems for **Pressure, Non pressure, Cable Protection, and Micro Ducts** to polyvinyl chloride (**PVC**) hoses. We aim to provide our customers with a full fledged service from the pipes to all the welding and technical support that might be needed for them to achieve the best results for their projects.

We produce our own HDPE pipes, segmented fittings and manholes. We complement our range by being the official distributors for **Widos** Germany HDPE pipe welding machines, **NTG** HDPE PE 100 injection fittings, **Akatherm** Netherlands special drainage fittings, **Camozzi, Italy, Microduct accessories** & **GAO** China BMC manhole covers.

Our manufacturing unit of PE pipes and accessories have been accredited by **The National Organization for Potable and Sanitary Drainage of Egypt**.

Besides our manufacturing and importation departments, we provide technical and welding support for the actual execution of the projects.

All our products are manufactured according to international standards using extrusion technology, and we ensure that all our production goes through stringent quality assurance systems and extensive testing to ensure that the highest quality standards are met.

Our Vision is to elevate the standard of living in Egypt and North Africa by providing infrastructural solutions to raise the quality of potable sewage systems, wastewater treatments and telecommunication networks.

Our Mission is to achieve our vision by providing the market with the most reliable and efficient products that guarantee long life , as well as maintaining satisfied and loyal clients.

We are fully equipped to undertake any project involving HDPE pipes with our comprehensive piping system and experience. Partnering with Hebeish Group will ensure the delivery of best results for your projects while experiencing the highest level of client satisfaction.

WHEN YOU BUY A CABLE,
the last thing you want,
is to dig it up again for repairs ...

THE RIGHT CONDUIT
from the start protects
your investment ..





DOUBLE WALL CORRUGATED PIPES

PRODUCT OVERVIEW

High density double wall corrugated polyethylene pipe for underground cable protection conduits, are mainly being used in application of underground electrical, optical systems - power and telecommunication networks.

The pipe is composed of two mutually co-extruded layers, a corrugated outside layer and a smooth inside layer.



MATERIAL

The pipes are made of high density polyethylene (HDPE), which is characterized for its good mechanical and chemical properties. It does not only provide economical benefits and solutions of the existing problems during installation, but is also environmentally friendly.

ADVANTAGES

- Very light and are therefore easier to assemble and transport
- Smooth internal surface makes it easy to insert the cables into the pipes
- Excellent mechanical and physical features
- Resistant to impact and impermeable to both water and dust
- Long lasting with no need for maintenance
- Available in flexible standard coils of 50m and 100m. Moreover, other lengths can be supplied upon request
- Flexible pipes make continuous placing possible and are very adaptable to the demands of the terrain
- Used at temperature ranging from -40°C to 80°C
- Highly resistant to corrosion
- Cost effective





Why HDPE DOUBLE WALL CORRUGATED PIPES AND NOT THE TRADITIONAL PVC PIPES ?!

Property	HDPE (DWC) Pipes	PVC Pipes
Flexibility	<ul style="list-style-type: none">• Flexible and versatile• Suitable for various applications	<ul style="list-style-type: none">• Rigid• Not flexible• Limited application
Transport and Handling	<ul style="list-style-type: none">• Handling is easy (lighter than PVC)• Low transport cost	<ul style="list-style-type: none">• Easy to handle
Structural	<ul style="list-style-type: none">• Can bear heavy overloading• Can be laid in minimum soil cover (2-1 feet) and doesn't crack due to earth adjustments	<ul style="list-style-type: none">• Cracks due to soil settlement and tectonic movements
Joints	<ul style="list-style-type: none">• Fewer joints• Can be supplied in coils of 500 m or more• Easy coupling jointing method	<ul style="list-style-type: none">• Higher Joints, as supply length is up to 6 meters
Durability	<ul style="list-style-type: none">• Excellent chemical and abrasion resistance• Very long life	<ul style="list-style-type: none">• Average resistance• Shorter life



FLEXIBLE CONDUIT PIPE 450N

HDPE double wall corrugated cable protection PE halogen free conduit pipe (Flexible 450N), with main application protection of low tension electrical and telephone underground cables. It is available in coils of various standard length.

- * **Product dimensions are according to** EN 61386-24.
- * **Compression test** > 450N vertical deflection equivalent 5% of the original diameter.
- * **Impact strength** Normal
- * **Can be used in** temperatures ranging from -10°C to 60°C.
- * **Minimum bending radius** 8 times the external diameter.

SIZE/DIMENSIONS

Dimension (OD)	ID Tolerance (mm)	OD Tolerance (mm)	Coils Length (m)
50	41.00 + 0.20	50.00 + 1.20	50 / 100
63	51.00 + 0.20	63.00 + 1.20	50 / 100
75	62.00 + 0.20	75.00 + 1.20	50 / 100
90	75.00 + 0.25	90.00 + 2.00	50 / 100
110	92.00 + 0.25	110.00 + 2.00	50 / 100
125	108.00 + 0.3	125.00 + 3.00	50
160	138.00 + 0.3	160.00 + 3.00	25

- * **Any other lengths** are available upon request
- * **Standard color** Black
- * **Any other colors** are available upon request



ACCESSORIES

Coupling

Coupling provides joints



Spacer





RIGID CONDUIT PIPE 750N

HDPE double wall corrugated cable protection PE halogen free conduit pipe in 6m bars, with excellent compression strength and very high impact resistance due to the advanced combination of the corrugated outside layer and the smooth inside layer.

The 750N series pipe is the best solution to apply when high ground tension and constant vehicular load is persistent factor.

- * **Product dimensions are according to EN 61386-24.**
- * **Compression test** > 750N vertical deflection equivalent 5% of the original diameter.
- * **Impact strength** Normal
- * **Can be used in** temperatures ranging from -10°C to 60°C.



SIZE/DIMENSIONS

Dimension (OD)	ID Tolerance (mm)	OD Tolerance (mm)	Coils Length (m)
50	41.00 + 0.20	50.00 + 1.20	6
63	51.00 + 0.20	63.00 + 1.20	6
75	62.00 + 0.20	75.00 + 1.20	6
90	75.00 + 0.25	90.00 + 2.00	6
110	92.00 + 0.25	110.00 + 2.00	6
125	108.00 + 0.3	125.00 + 3.00	6
160	138.00 + 0.3	160.00 + 3.00	6

- * **Any other lengths** are available upon request
- * **Standard color** Black
- * **Any other colors** are available upon request

ACCESSORIES

Coupling

Coupling provides joints



Spacer





STORAGE RECOMMENDATION

- Coils and bars must be stored in horizontal position, maximum storage height 2 Mtr.
- Coils and bars must be stored in the shade, under a roof, preventing direct sun exposure.
- Coils and bars must be placed next to open trenches and their storage areas must be clean and free from any foreign bodies such as sharp stones that could cause damage.

COMPRESSION TEST

(Acc. to ISO 9969)

Resistance to Compression	
Classification	Compression Strength (Nt)
Type 250	≥ 250
Type 450	≥ 450
Type 750	≥ 750





FOR INQUIRIES

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