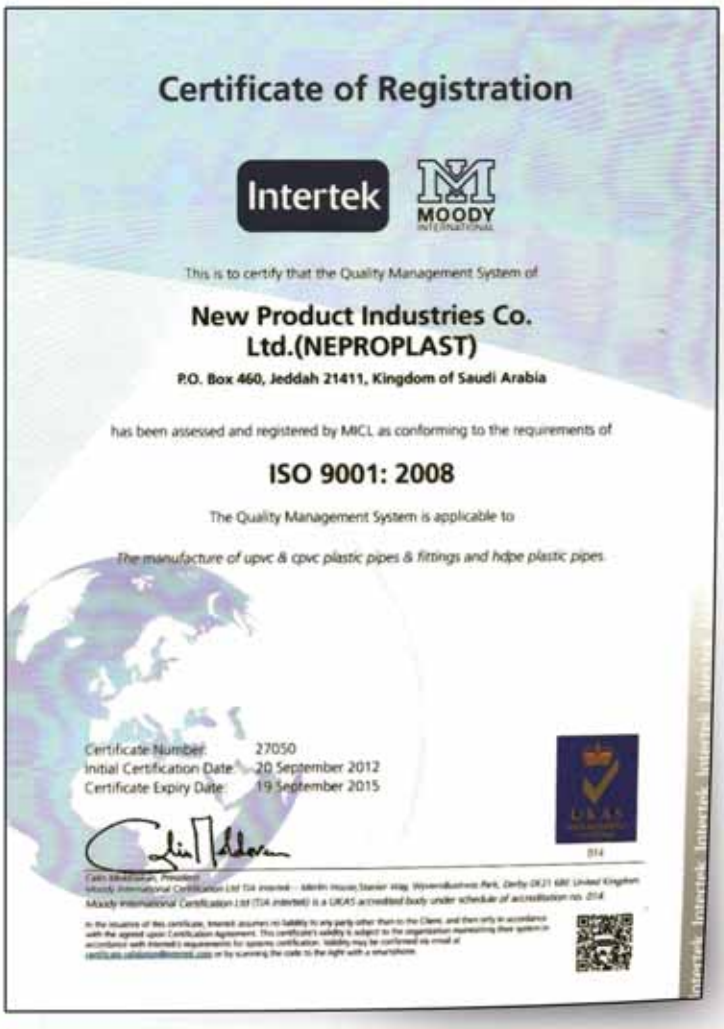
NEPROPLAST

NEW PRODUCTS INDUSTRIES CO. LTD

NEPROPLAST Polyethylene Corrugated Optical Duct (COD) & Sub Duct

For Electrical and Telecommunication Networks

Distributed by
National Marketing Est. Co .Ltd



Certificate of Registration

Intertek

MOODY INTERNATIONAL

This is to certify that the Quality Management System of

New Product Industries Co. Ltd.(NEPROPLAST)

P.O. Box 460, Jeddah 21411, Kingdom of Saudi Arabia

has been assessed and registered by MICL as conforming to the requirements of

ISO 9001: 2008

The Quality Management System is applicable to

The manufacture of upvc & cpvc plastic pipes & fittings and hdpe plastic pipes

Certificate Number: 27050
Initial Certification Date: 20 September 2012
Certificate Expiry Date: 19 September 2015

Colin Middleton, President
Moody International Certification Ltd (T/A Intertek) is a UKAS accredited body under schedule of accreditation no. 014

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MOODY INTERNATIONAL CERTIFICATION

New Product Industries Co.Ltd

NEPROPLAST

P.O.Box-460, Jeddah - 21411

Kingdom of Saudi Arabia

BS EN ISO 9001:2000

SCOPE OF REGISTRATION:

The Manufacture of uPVC and CPVC Plastic Pipes and Fittings

CERTIFICATE NO: 27050

Subject to continued compliance with ISO 9001 and the Moody International Certification Scheme Rules and Regulations, your certificate of which scope of Registration document is part is valid indefinitely

Further Clarification regarding the scope of this certificate and the applicability of ISO 9001:2000 requirments may be obtained by consulting the above Organisation

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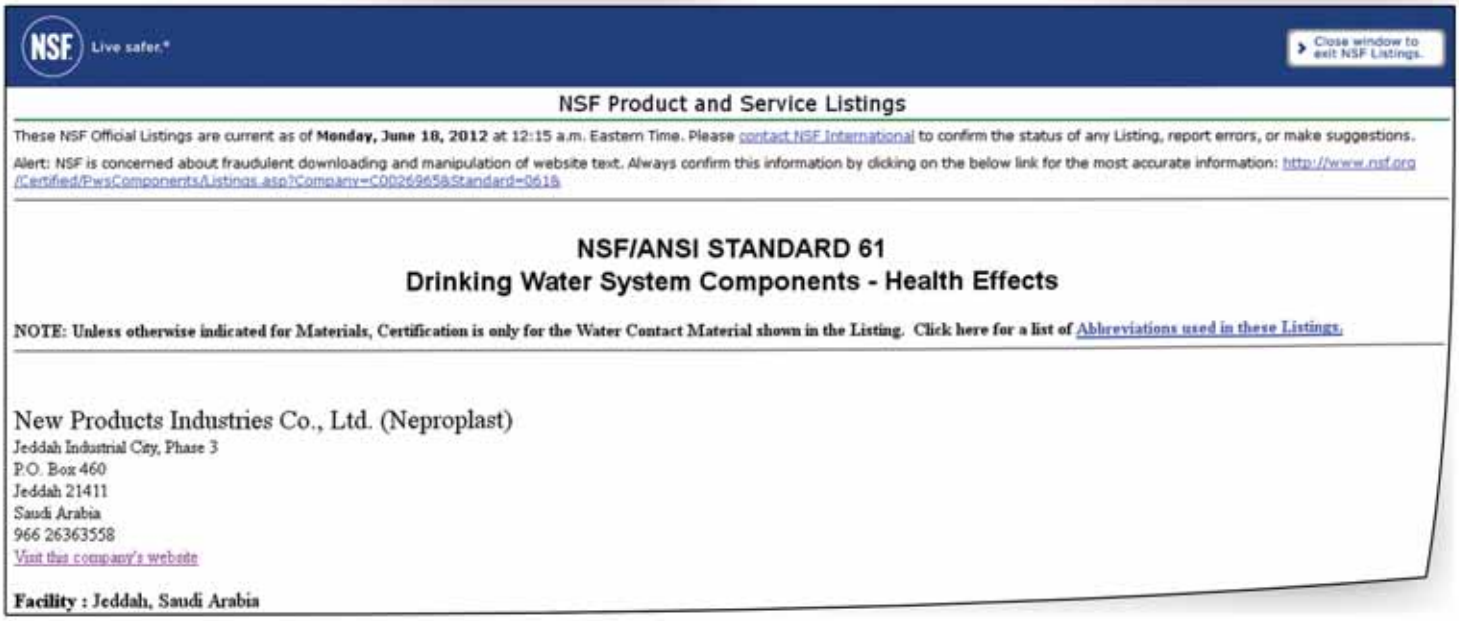
(Body Shop)



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NSF/ANSI STANDARD 61
Drinking Water System Components - Health Effects

NOTE: Unless otherwise indicated for Materials, Certification is only for the Water Contact Material shown in the Listing. Click here for a list of Abbreviations used in these Listings.

New Products Industries Co., Ltd. (Neproplast)
Jeddah Industrial City, Phase 3
P.O. Box 460
Jeddah 21411
Saudi Arabia
966 26363558
Visit this company's website

Facility : Jeddah, Saudi Arabia

FOREWARD

NEPROPLAST (New Products Industries) was established in the 1969 as the first manufacturing facility to introduce the uPVC piping systems to the market in Saudi Arabia. Since its establishment, NEPROPLAST has followed a strict policy in producing high quality pipes. Using state of the art equipment and tools in its production facilities, hiring a highly trained professional staff, and working with a very experienced team of consultants in the industry. The initial production of NEPROPLAST uPVC pipes were manufactured according to British Standard Specifications BS 3505/3506. At a later stage, NEPROPLAST started to manufacture pipes and fittings according to International Specifications ISO. NEPROPLAST actively participated with Saudi Arabia Standard Organization SASO to set the Saudi Arabian Standard SAS 14/15/1396. In the mid 80s, NEPROPLAST started the production of PVC pipes and fittings according to ASTM standards for schedule 40, schedule 80, and CPVC pipes for sch80.
By producing a wide range of pipes and fittings according to different standards, NEPROPLAST has established for itself a strong position in the market to serve the construction industry in the fields of water network pressure lines, sewerage and drainage non-pressure lines, and electrical & telecommunication conduits . NEPROPLAST made its pipes and fittings available in both options of Rubber Ring or Solvent Cement jointing systems.

In 2009, NEPROPLAST made a significant move into modern, heavy metal free stabilizers for all its uPVC & cPVC products. A move which ensured total elimination of toxicological content throughout the entire NEPROPLAST product range.Organic stabilizers pipes and fittings ensure a safe drinking water supply, free of any possible toxic traces which can develop through the use of heavy metal uPVC stabilizers.

All NEPROPLAST drinking water products are now accreditised through NSF, proof of its excellent health safety factor.

NEPROPLAST added to its products portfolio the production of Polyethylene pipes (HDPE) in 2009. NEPROPLAST HDPE products range covers pipes and ducts to serve the water, gas, electrical, and telecommunication applications. NEPROPLAST recently introduced to the market the Polyethylene Corrugated-Optic-Ducts (COD) as a unique product for fiber optic and electrical cabling installations.

All NEPROPLAST products are marketed and sold through National Marketing Est. Co LTD. which has more than 23 branches covering all cities and urban areas across the Kingdom of Saudi Arabia. National Marketing has an export department responsible for exporting NEPROPLAST products to Middle East and North African (MENA) markets. In addition to NEPROPLAST products, National Marketing Est. Co. imports a wide range of fittings, valves, solvent cements, and other accessory components. Nowadays, National Marketing Est. Co LTD. is considered the largest trading company in Saudi Arabia that has all kinds of plastic pipes, fittings, valves, and cements available in its stocks for all traders and contractors in the Saudi market.
Both NEPROPLAST and NATIONAL MARKETING strive to be the largest quality leader in the supply of plastic piping systems to serve the water, gas, electrical & telecommunication sectors across the Middle East.

Isam K.Kabbani
Chairman
IKK Group of Companies

INTRODUCTION

COD stand for Corrugated Optical Duct, specialized products, COD is a Multiple channel cable duct with plain surface, specially coated inner pipe and corrugated outer pipe as an integrated single body. both are manufactured from high Density Polyethelene(PE) materials. Possible combinations of inner pipe sizes can be done upon customer,s reuest. Hence, Combination is flexible, resistance enabling a rolled-on spool regardless of numbers of subduct built-in which can be coiled over 500m. COD is possible to transport easily and therfore reduce labour cost as well as faster installation and lower the construction cost.

COD open the new era of the telecommunication back bone with its built-in multiple sub ducts inside of the corrugated duct, with very distinctive differencec from the conventional telecommunication PVC ducting System. Telecommunication companies agree on the proven benifets of this product with its great economics and convenient installation than any other system.

COD application services include Construction of underground ducts for High Speed Internet Superhighway networks Cable Television CCTV on the express highway, high & low voltage power cables, Video Phone Communication Downtown / Business quarters infrastructure Undersea's infrastructure.

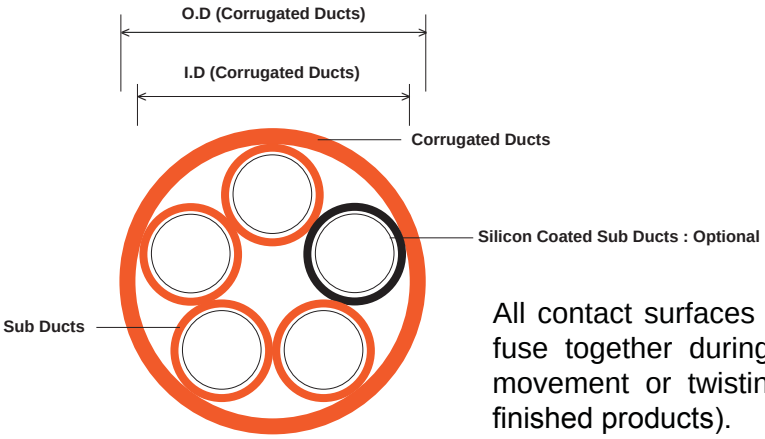


Fig: 1.c - COD Pipes

All contact surfaces between main duct and built-in sub-ducts shall fuse together during extrusion process. This fusion shall prevent movement or twisting of subducts inside the main COD duct (in finished products).

COD ducts are used to provide a single and continuous duct laying operation from one point to another between manhole to manhole, without any cut. It can be laid directly into trench at standard depths even without sand bedding. Concrete encasement is normally not required.

Product Range:

NEPROPLAST COD is available from diameter 90 mm to diameter 160 mm in coils and bars

Table 1:

Model	Design	Corrugated Duct		Sub Duct			No.Sub Duct	Application
		O.D (mm)	I.D (mm)	O.D (mm)	THK (mm)	I.D (mm)		
28 x 3 Lines		90.0	70.0	33.0	2.5	28.0	3	FOC installations
28 x 4 Lines		100.0	80.0	33.0	2.5	28.0	4	FOC installations
28 x 5 Lines		110.0	90.0	33.0	2.5	28.0	5	FOC installations
32 x 4 Lines		110.0	90.0	38.0	3.0	32.0	4	FOC installations
36 x 3 Lines		110.0	90.0	42.0	3.0	36.0	3	FOC installations
36 x 4 Lines		120.0	100.0	42.0	3.0	36.0	4	FOC installations
50 x 3 Lines		160.0	125.0	59.0	4.5	50.0	3	FOC installations

Standards

NEPROPLAST corrugated pipes for cable protection are produced according to EN50086 2-4 (DIN 16961, NFC 68-171), i.e. EN 13476 standards

Color

The standard color is orange and is offered in a variety of other colors.

INTRODUCTION

Marking

NEPROPLAST COD are marked with NEPROPLAST "COD" O.D.110 MM. with 5 Built-in SUBDUCT O.D. 33 MM. (Arabic logo) (Arabic Origin) JEDDAH KSA (date) (shift no) (time) (line no.) …….. xxx M. (sequential)

NEPROPLAST "COD" O.D.110 MM. with 5 Built-in SUBDUCT O.D. 33 MM. (Arabic logo) (Arabic Origin) JEDDAH KSA 27/08/12 1 12.00.00 L1

COD Specification

The following international and/or national standards are integral part of this specification:

ASTM F 405 Standard Specification for Corrugated Polyethylene Pipe and Fittings

ASTM D 2412 Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe By Parallel-Plate Loading

ASTM D 1505 Standard Test Method for Density of Plastics

ASTM D 882 Standard Test Method for Tensile Properties of Plastics

ASTM D 1693 Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics

ASTM D 1603 Test Method for Carbon Black in Olefin Plastics

ASTM D 2122 Test Method for Determining Dimensions of Thermoplastic Pipes & Fittings

Long Term Performance Requirements

The above specification require COD ducts and its accessories be
1- capable of withstanding the typical service conditions of the Kingdom of Saudi Arabia for a minimum period of fifty (50) years without detriment to the operation and maintenance of the product.
2- Designed, manufactured and packaged so that its physical or operation and maintenance characteristics shall not degrade when exposed to the environmental conditions of Saudi Arabia, and the expected environmental conditions during storage and transportation outside of the Kingdom.(The environmental conditions of Saudi Arabia may include ambient air temperature variations from -10° to +50°C.

Technical Requirements

COD should be compatible with the latest installation standards and operation and maintenance practices for the telecommunication's duct system.
COD should be free of blisters, shrinkholes and inhomogeneities, that might impair the service performance.
COD should to be acceptably round. Supplied with its ends cut cleanly at right angles to the axis of the duct.
COD deemed to have accessories easily connectable, e.g., connector, for connecting the duct to manholes/handholes; and joint closure, for enclosing COD joints.

ADVANTAGES OF COD

Better Flexibility

Due to the spiral formation of the product, COD bends easily without special bending efforts, and is easy to by-pass or over pass hurdles along with the duct line.

Lengthy pipe

The lengthy and coiled-on drum reduces considerable labor cost as well working period of installation by waving numerous connections in between two manholes in a one-time installation. On top of this, COD never requires inserting of sub duct into corrugated outer duct owing to the built-in production of multiple sub ducts.

Lighter in weight

Compared to the conventional duct, COD is considerably lighter which offers benefit while transporting and handling in the work site.

Stronger

The readily built-in multiples numbers of sub ducts perfectly eliminates any loose space inside of spiral corrugated duct, allowing COD to offer considerable advantage in terms of compressive load.

ADVANTAGES OF COD

Safety

COD stands safe in Earthquakes and Land Subsidence owing to its strong compressive load and flexibility.

Easy insertion of optic fiber cables

COD facilitate easy insertion of cables up to the maximum-coiled length owing to perfect alignment of inner ducts and less friction, as it has no connections. In addition, it enables to extend the manhole distance.

High Reliability

COD is non-conductive of electricity, and therefore, it is ideal to apply for power cable ducts.

Cost Efficiency

COD offers cost efficiency throughout all consecutive work stages and endurance.

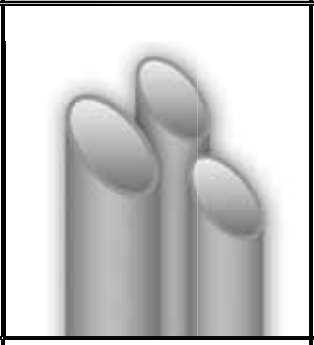
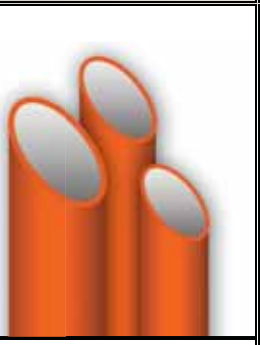
Better resistance against chemicals

COD lasts semi-permanently,having resistance against chemicals and corrosion from salt water or wetland.

The HDPE-COD shall comply with the test requirements of Table 2. **Table 2:**

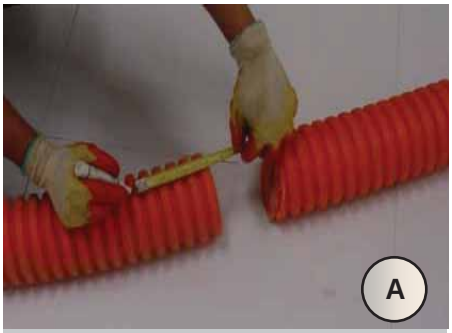
Clause	Properties	Values	Test Method
1	Compound Density @ 25°C	0.95 g/cm3, min	ASTM D 1505
2	Pipe Stiffness @ 5% Deflection, average:		ASTM D 2412
	- HDPE-CD (with 7-29 mm OD sub-ducts)	> 27 kgf/cm²	
	- HDPE-CD (with 5-33 mm OD sub-ducts)	27 kgf/cm²	
	- HDPE-CD (with 3-42 mm OD sub-ducts)	21 kgf/cm²	
	- HDPE-CD 110 mm OD (Empty main duct)	15 kgf/cm²	
	- HDPE-CD (with 3-27 mm Outside Dia. sub-ducts)	27 kgf/cm²	
	- HDPE-CD 77 mm OD (Empty main duct)	24 kgf/cm²	
3	Compressive Strength @5% Deflection, average:		ASTM D 2412
	- HDPE-CD (with 7-29 mm OD sub-ducts)	> 1,200 kgf/m	
	- HDPE-CD (with 5-33 mm OD sub-ducts)	1,200 kgf/m	
	- HDPE-CD (with 3-42 mm OD sub-ducts)	950 kgf/m	
	- HDPE-CD 110 mm OD (Empty main duct)	660 kgf/m	
	- HDPE-CD (with 3-27mm OD sub-ducts)	770 kgf/m	
	- HDPE-CD 77 mm OD (Empty main duct)	668 kgf/m	
4	Tensile Strength @ Yield (film properties)	30 MPa	ASTM D 882
5	Elongation @ Break (film properties)	400%	ASTM D 882
6	Nominal Pressure (Sub-duct)	16 Bar	SASO 15
7	Hydrostatic Strength (Sub-duct)	8 MPa	ASTM D 2837
8	Environmental Stress Crack Resistance (ESCR),F20	192 h, Condition C.	ASTM D 1693
9	Carbon Black Content	2%	ASTM D 1603
10	Water Absorption	0.03%, maximum	ASTM D 570 24 hrs immersion
11	Voltage Resistance	2,000 Vac,>15 min	
12	Insulation Resistance	> 200 Mohm	

COMPARISON BETWEEN CONVENTIONAL PRODUCT & COD

Description	Conventional system		New system
	PVC & FC duct	PE duct	COD
			
Material	①PVC ②Foamed polyvinyl chloride	High Density polyethylene	High Density polyethylene
Shape	①Duct made of PVC	①One piece duct made of polyethylene	①Corrugated concavo-convex shape.
	②PVC + foamed vinyl chloride + PVC duct	②Flat surface of inside and outside duct	②Multiple sub ducts are readily built-in
	③Flat surface of inside and outside duct		③The inside of sub duct is protruded connecting
Connection	in every 6 meters	none	none
Length	6m (At Maximum)	No Limit	Up to 500 to 1000m
Weight	medium	light	light
Insertion of Inner Duct	Insert	Insert	No Need
Excavation Depth	100%	60%	60%
Working condition	medium	medium	fine
Flexibility	medium	fine	fine
Coefficient of friction	high	medium	low
Tension	high	high	low
Strength	weak	strong	strong
Use of inner space	-	low	high
Torsion of the inner duct	-	occur	free from torsion
Breakage	-	may occur	free from crash
Damage Rate	Over 90%	0 %	0 %

COD INSTALLATION

Striping Outer duct



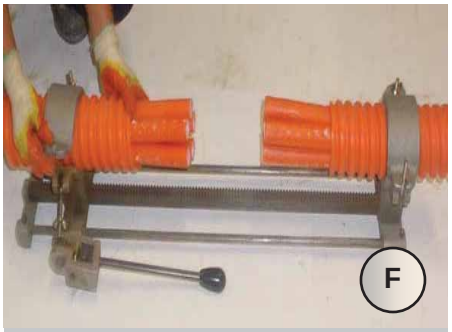
Set the two ends of the ducts to be jointed. Mark each end of the duct to13 cm from duct end.

Put the cutter into the outer duct

Pill off the skin of COD spinning right

Cutting Skin of COD and remove COD cutter spinning left

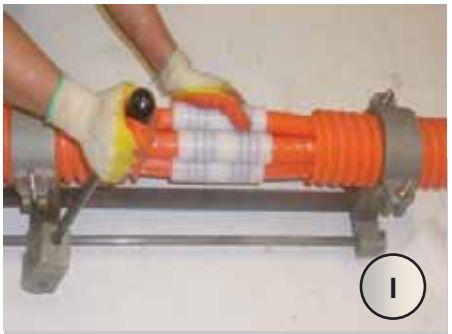
Trimming Sub-duct and complete



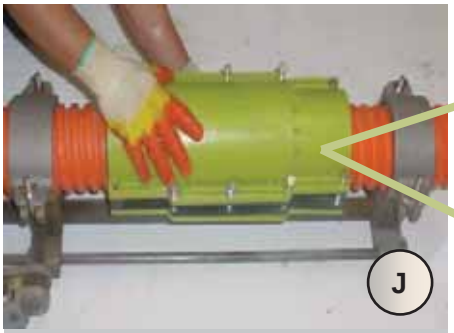
To clamp and secure both ends of the COD ducts.

Insert Couplings in each sub duct clamped beside the tool's lever arm.

Operate the lever arm of the Jointing Tool to move the duct towards the opposite duct.



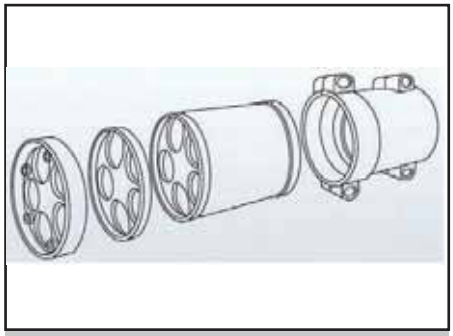
Guide the Sub duct Couplings until they mate with the opposite sub-ducts.



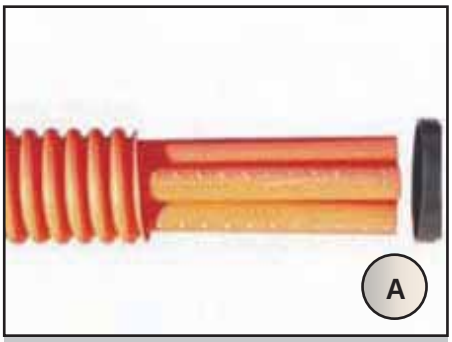
To close and cover the joint. One part below the joint, covering 2 grooves of the duct and the other part to mate with the other half.

Tighten the bolts of the closure. The completed PECD jointing is as shown.

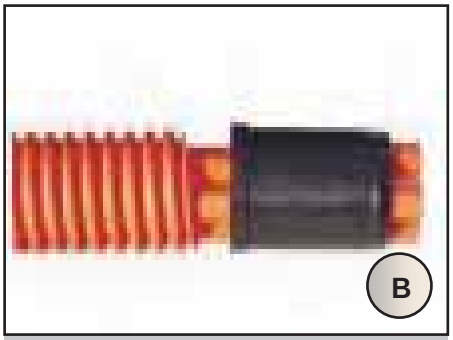
COD MANHOLE CONNECTORS TYPE I:



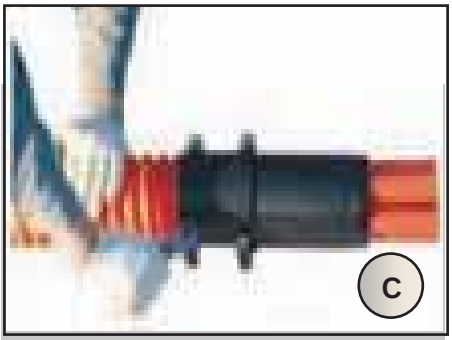
COD Manhole connector M,L Body: PE- Cap: PP(PP 90% + PE 10%) - Fixing cover:(PP 90%+PE 10%) -Rubber gasket



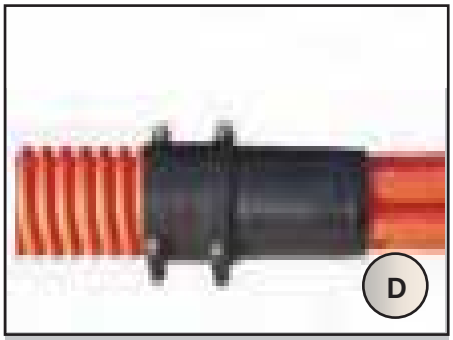
Remove outer layer: use the outer layer remover to remove about 50cm of outer layer.



Insert Body of Manhole Connector, Place the Body in the correct position.

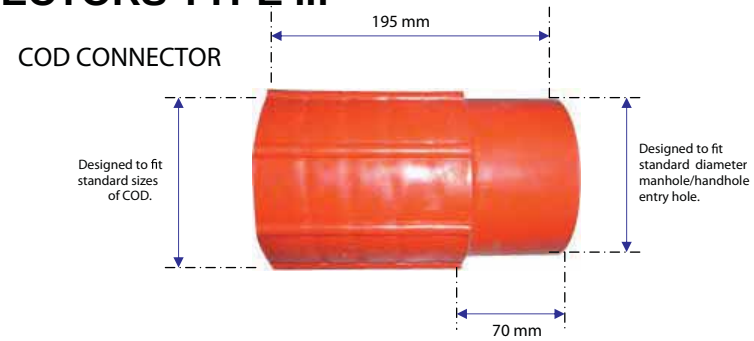


use bolts and nuts to connect the body with the upper and lower fixing covers



Complete The Installation

COD MANHOLE CONNECTORS TYPE II:

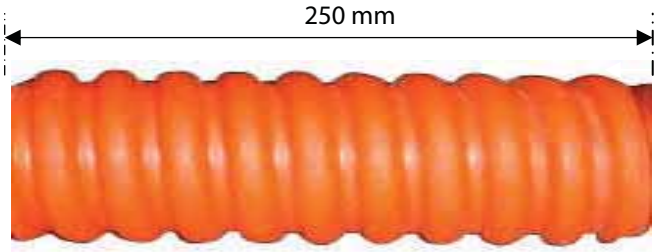


Pull the COD duct up to the manhole or hand-hole wall.

Use COD CONNECTOR to connect COD duct into MH or HH entry hole. Apply duct solvent cement

Insert the COD duct into the MH or HH entry hole.

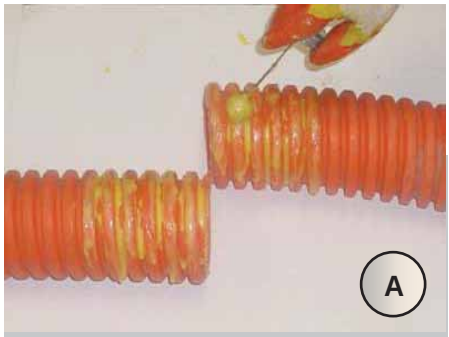
COD CONNECTOR TYPE III FOR EMPTY DUCT



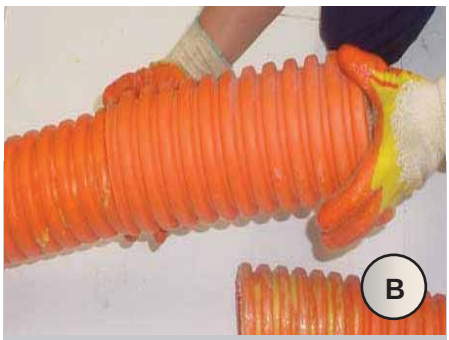
COD CORRUGATED COUPLING

Designed to fit
116mm OD COD

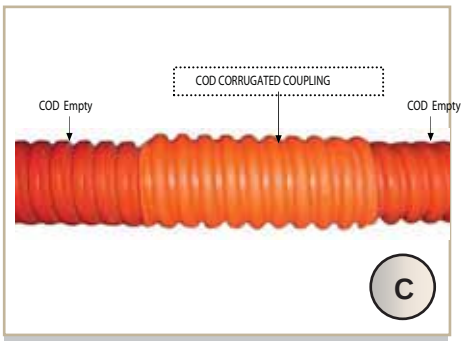
COD Corrugated Coupling	Dimension (mm)			
	Inside Dia.	Wall Thickness	A	B
For 110 mm COD	94	2.5 +/-0.5	116	250



Apply duct cement around the ducts, 15 cm from duct ends.

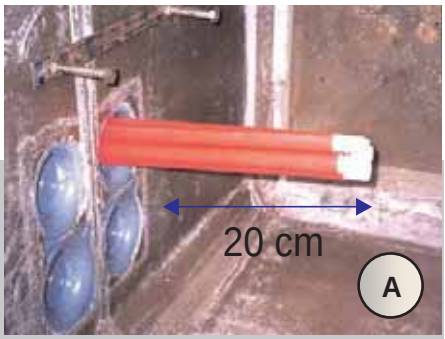


Use COD CORRUGATED COUPLING, for jointing the two ducts. Screw the full length of the Coupling into one end of COD

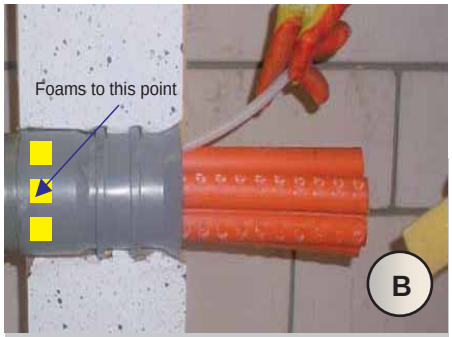


COD CORRUGATED COUPLING AFTER CONNECTION

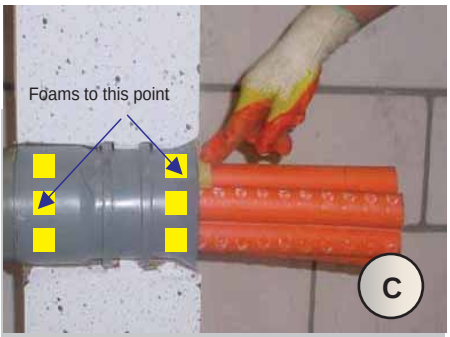
SEALING OF INSTALLED COD DUCT



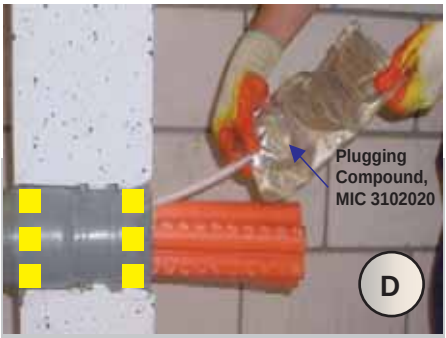
Insert the COD into the MH or HH entry hole. The sub-ducts shall protrude outside the hole by approx. 20 cm.



First, insert foams around the spaces at one end of the duct terminator.



Insert foams near the hole's opening.

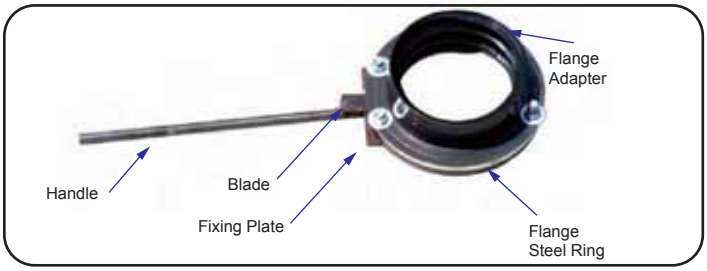


Prepare the Plugging Compound and inject between the foam barriers.

Completed Installations

COD ACCESSORIES

COD Cutter:



COD Cutter:

Material of COD Cutter
- Flange Adapter : ABS
- Steel ring/Handle/Fixing plate/Blade 90 degree Steel
- Bolt, Nut and Washer : Steel or SUS

COD Connecting Jig:

COD Cutter:

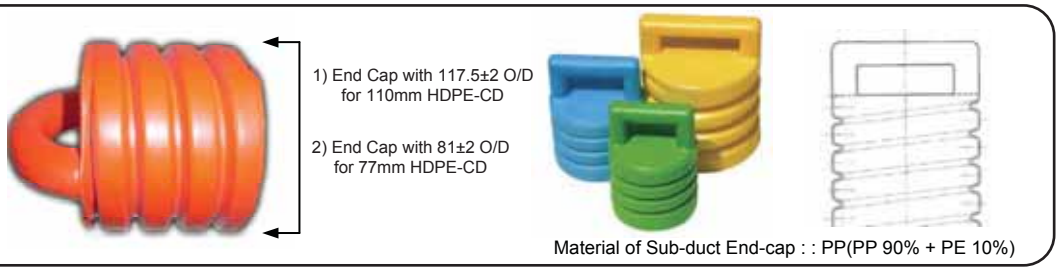
Material of COD Connecting Jig
- Steel ring/Handle/Fixing plate/Locking Mechanism

Minor tools

A set of minor tools installation of COD

COD Connectors

COD End Caps



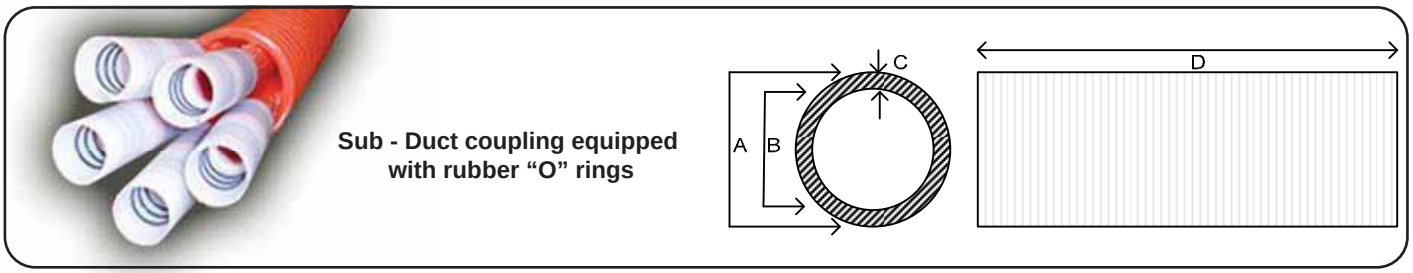
Material of Sub-duct End-cap : : PP(PP 90% + PE 10%)

Sub-duct End-cap

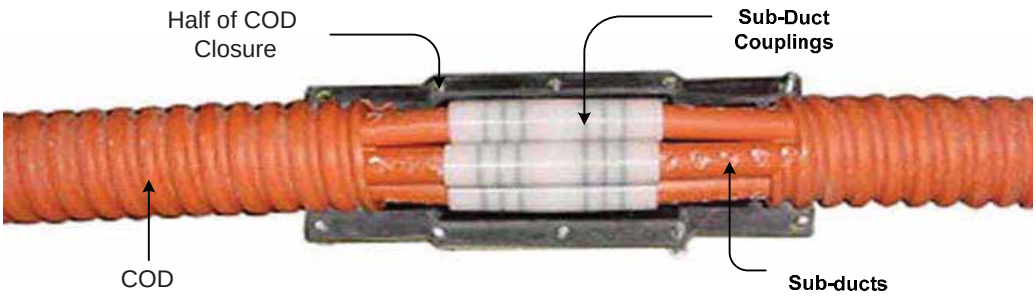
Material of Sub-duct End-cap : : PP(PP 90% + PE 10%)

COD ACCESSORIES

Sub-Duct Coupling:



Sub-Duct Coupling	Dimension (mm)			
Type	A	B	C	D
Sub-Duct Coupling , for 29 mm OD sub-ducts, Type 1	39	31	4 +/- 0.5	170
Sub-Duct Coupling , for 33 mm OD sub-ducts, Type 2	43	35	4 +/- 0.5	170
Sub-Duct Coupling , for 42 mm OD sub-ducts, Type 3	52	44	4 +/- 0.5	170
Sub-Duct Coupling , for 27.2 mm OD sub-ducts, Type 4	37.2	29.2	4 +/- 0.5	170

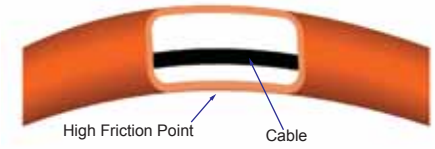


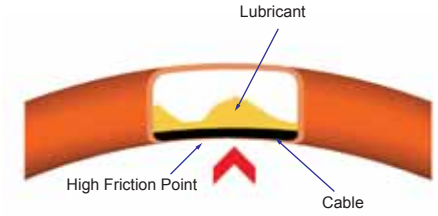
Sub-Duct Coupling after Connection

SSD (SILICONE SUB DUCT) - Protecting fiber optical cable

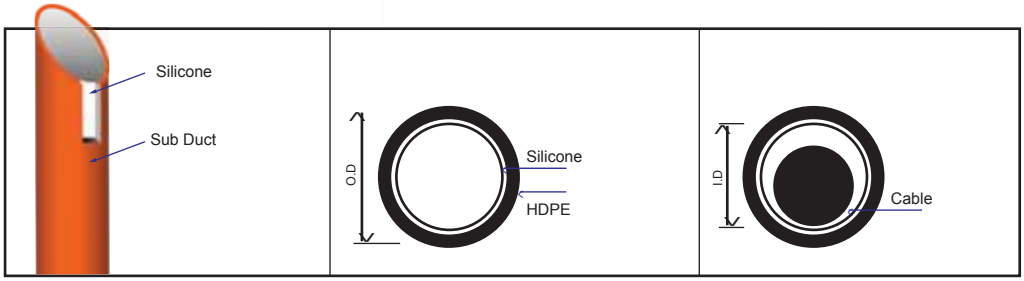
NEPROPLAST SSD is made from virgin, flexible HDPE and is used for Optic Fiber and copper cable networks. It can easily be swept to make gradual bends without special forming equipment.. It has Superior resistance to natural or mechanical damage. The inner wall of the duct is with silicone coated.
Silicone coated internal wall is a solid slick lubricant insulator. Silicone Sub Duct has 80% reduction of co-efficient of friction than non-silicone coated internal ducts, and provides complete cable protection before, during and after installation.

Advantages:
Silicone lasts as long as the Duct itself
Silicone does not evaporate or burn out due to heat or friction
Silicone does not dry by high volume of air nor reduce its efficiency
Silicone is preferred by all Network Builders of the world and is the Industry standard for duct lubrication
Silicone co-efficient of friction does not change with time
Silicone supports blowing and pulling





Inside Dia. (mm)	Thickness of silicone coated wall (mm)
22	0.4±0.1
25	0.5±0.1
29	0.5±0.1
35	0.5±0.1



Long Term Performance Requirements

	Test Name	Performance			Related Materials
Mechanical Properties	Tensile strength	180kgf/cm2			KS M 3006
	Coefficient of friction	0.30 Below			Bellcore Spec
	Compressive strength (flat)	Division	5% strain (kgf or higher)	Inner contact (kgf or higher)	KS M 3413
		22mm	4	33	
		25mm	7	50	
		29mm	10	100	
		35mm	14	130	
	Compression resilience	Recovery rate more than 10.0%			KS C 8454
	Heat deformation	Strain 3.0%			KS M 3408
	impact	Balance shall be free from cracks			KS C 8454
Chemical Properties	Chemical resistance	HCL aqueous solution: change in weight 12g/m^2			KS M 3407
		NaOH aqueous solution: change in weight 12g/m^2			
		Polyethylene Glycol: 12g/m2 or less			
		Should be no change in the surface of the sample and Delamination.			

SSD (SILICONE SUB DUCT) - Protecting fiber optical cable

Sub-duct wall design
Outer and inner walls shall be plain and smooth. Inner wall shall have low coefficient of friction to facilitate cable installation by blowing technique.

Fusion of main duct and Subducts
All contact surfaces between main duct and built-in subducts shall fuse together during extrusion process. This fusion shall prevent movement or twisting of sub-ducts inside the main COD (in finished products).

Color of Sub-ducts:
Sub Duct shall have the same color as that of the main duct, except that one sub-duct should always have a distinct color separate from the other. So, if one sub-duct is black the remaining shall be orange. Likewise, if one sub-duct is orange the remaining shall be black.

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NEPROPLAST

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