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PRODUCT CATALOG



Telecommunication Ducting Products



Quality, Inside and Out



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Company Overview



Muna Noor is a leading plastics manufacturer within Oman and distribution globally. In the last 45 years Muna Noor has continued to capture more of the market share due to its world class reputation for quality, product innovation and customer service for its customers in the critical infrastructure sectors of telecoms, power and water.



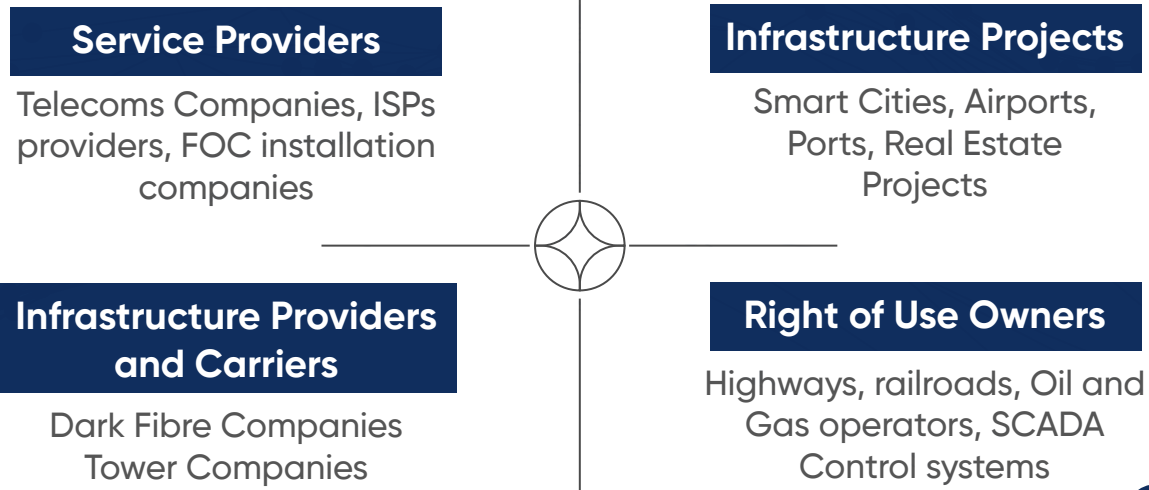
**Plastic
Pioneer
Since 1975**

Telecommunication Products

Muna Noor has a wide variety of products to serve the telecommunications industry, from basic PVC Conduits to its newest product, Micro and Bundle Ducts. No matter the application, Muna Noor has the solution for any cable or ducting need.

- 01 HDPE MicroDuct and subDucts
- 02 HDPE Bundle Ducts
- 03 HDPE DWC Corrugated Ducts
- 04 uPVC Ducts

Markets and Customers



Micro and SubDucts

Micro and Subduct products are small to medium HDPE hollow tubes with an inner silicone layer to reduce the friction of cable installation. They are supplied in coils at a variety of lengths to reduce junctions and for easy installation. All ducts have high impact and tensile strength and are UV resistant.



Micro Ducts

Microducts are the smallest ducts manufactured by Muna Noor:

- Sizes from 5mm - 20mm
- Manufactured in thick wall (DB) and thin wall (DI) for different applications.
- Designed for Bundled MicroFibre Cables

Sub Ducts

Subducts are medium sized ducts manufactured by Muna Noor:

- Sizes from 25mm - 50mm
- OD and Wall Thickness can be varied for different applications



Manufactured Features and Options

Micro and Bundle ducts can be manufactured with a number of optional features, dependant on the customer requirement and product specification.

- Inner layer: straight or spiral
- Insulated CU wire for traceability
- Pre-installed pull strings
- LSZH or Riser Rater
- Anti Termite and Rodent Treatment



Bundle MicroDucts

Bundled microducts are highly customizable arrangement of multiple micro ducts bundled & encased in a rugged, crush resistant outer PE jacket. The Muna Noor bundle ducts allow for deeper fiber penetration and added flexibility for future network expansion.

- 01 Bundle duct is rugged with high crush resistance, impact and tensile properties
- 02 Best solution for City/Metro Access and Enterprise FTTx Networks
- 03 Deployable in:
 - Open Trench
 - Horizontal Directional Drilling
 - Mechanical Trenching
 - Plough
- 04 Popular Bundle Configuration : 2, 4, 7, 12, 19 and 24 ways



Bundle SubDucts

Bundled SubDucts are highly customizable arrangement of multiple standard subducts bundled & encased in a rugged, crush resistant outer PE jacket. Bundle subducts are the perfect solution of larger fibre bundles with enhanced network flexibility.

- 01 Bundle ducts are rugged with high crush resistance, impact and tensile properties
- 02 Ideal replacement for multiple loose standard ducts at lower cost
- 03 Superior replacement for PVC Main Duct / HDPE subduct in city networks
 - Trench size is minimized ; savings in civil cost
 - Increased spacing between manholes
 - Significant savings in deployment time and CAPEX
- 04 Popular Bundle Configuration : 2, 3, 4 & 5 ways



Bundle and MicroDuct Technical details

A salient advantage of bundle ducting products is the wide variety of configurations and sizes that can be manufactured, each product can be designed and made to customer and project specifications. The below details are some of the most common sizes and configurations. For further details and a complete range of options please speak to one of our customer service agents.

Bundle MicroDucts Details

Bundle Microduct Configurations : Sizes (OD/ID in mm)*									
	5/3.5	7/3.5	8/5	10/8	12/10	14/10	16/12	18/14	20/16
2 Way	✓	✓	✓	✓	✓	✓	✓	✓	✓
4 Way	✓	✓	✓	✓	✓	✓	✓	✓	✓
7 Way	✓	✓	✓	✓	✓	✓	✓		
12 Way	✓	✓	✓	✓	✓	✓			
24 Way	✓	✓	✓						

Bundle Subduct Details

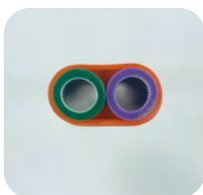
Bundled Subduct Configurations : Sizes (OD/ID in mm)*				
	25/20	32/26	40/32	50/42
2 Way	✓	✓	✓	✓
4 Way	✓	✓	✓	✓
5 Way		✓		



Technical Details and Options

Colors and Marking	Customer specific colours & Marking
Form of Supply	Customized length up to 4000 meters
Expected Life Span	>50 years
Suited Temperature Range	-20c to +65c
Test Standards	ASTM, DIN, BS EN/EN, IEC, ISO, Bellcore
Application Features	LSZH, Anti Termite, Anti Rodent, Riser Rated
Bundle Configurations	Tracer Wire, Rip Cord, Pre Installed Draw strings

* Other custom configurations are also possible.
Please contact a sales representative or raise an enquiry for further details.



2 way



4 way



7 way



12 way



24 way

Bundle Duct Advantage

Micro and Bundle Ducts are the future of fiber optic cable networks. The bundles allow for easy network expansion and the long drum lengths and silicone layer take advantage of blowing technologies to reduced chambers, splicing and total installation costs.



► Silicone and Air Blowing Technology

- Silicone Layer reduces friction between cable and duct
- Longer duct and cable lengths reduce ancillary costs
- Quick and easy repairs and upgrades



► Network Flexibility

- Empty ducts can be leased or sold
- Ability to plan for the future
- Ducts can easily be expanded



► Highly Customizable

- Ducts can be manufactured in an array of configurations
- Maximizes available space
- Fast Expansion



► Cost Effective Solution

- Reduced Installation cost
- Easy fibre installation
- Complete installation solutions

Installation Tools and Accessories

In addition to manufacturing a wide range of micro and bundle duct products. Muna Noor offers all of the ancillary products required for a complete installation project.

- Comprehensive range of duct connectors & plugs for efficient fiber laying & protection
- Tube distribution closures for microduct branching & fiber distribution
- Versatile tool box with key accessories to install fiber/duct network
- Duct testing & system health check equipment set
- Warning tapes & mats for network protection & traceability

Offering **complete solution** for building future-proof networks

DWC Ducting

HDPE DWC ducting pipes are specially designed with the primary purpose of increasing flexibility and strength of the duct and reducing the raw material cost.

- Manufactured in sizes 110mm and 120mm
- High compression strength: 450N @ 5% deflection as standard
- Manufactured as per EN and other international standards

Applications

- Telecoms duct for multiple cables
- Underground power cables

Advantages

- Highly flexible for underground undulations
- Duct lengths of 100m, reduced chambers and overall installation cost and time
- Water tight push fit couplers, decreases installation time



uPVC Ducting

In addition to the bespoke ducting solutions Muna Noor offer, traditional uPVC ducting remains a reliable option for all pipe and ducting requirements.

- Size ranges from 25mm - 200mm
- Can be manufactured with rubber ring or solvent weld joints
- Supplied in straight lengths of 6 meters with complete accessory range

Applications

- Electrical cable
- Fiber optic cable
- Telephone
- Communication and other conduit and ducting applications



Please note that the information contained in this catalog may be subject to inaccuracies and that all technical details and specifications should be verified before making any purchasing decisions.

For any questions or further information please contact one of our world class customer service representatives

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We are in socials



Growing Clientele

