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COMMUNICATION CONDUITS

Fully Protected Cables

COMPANY PROFILE

ALROWAD INDUSTRIALCOMPLEX is one of the leading Egyptian companies working in plastic industry specialized in designing and manufacturing HDPE Communication Conduits by using the best raw material and developing the highest technology and quality applied in this field

Our company

Our company also develops our products from HDPE pipes & UPVC pipes and Fittings to serve many sectors such as infrastructure projects, light Current Projects, Carbon Fiber Works, Telecommunication & Electrical Cables ... etc.

We are providing technical support for all stages of the projects.

Our vision

To be the leading regional manufacturers of HDPE PIPES and one of the largest manufacturers Aswell as contribute in increasing the treatments of potable, sewage and waste water in Egyptfor better living

Our mission

To achieve our vision by providing our customers with Distinctive products, reliable services, excellence in quality through complying with both Egyptian and International standards,

CONTENT

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Communication & Bundled conduits RANGE OF COLORS & DIMENSIONS:	
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HDI COI HIGH

HDPE
CONDUITS
HIGH DENSITY
POLYETHYLENE
(HDPE) CONDUITS



HDPE CONDUITS FULLY PROTECTED CABLES

HDPE Material For Conduit Applications:

INTRODUCTION

HIGH DENSITY POLYETHYLENE (HDPE)

PRODUCT FEATURES:

- Pipe for many applications
- Water and sewer
- Gas distribution
- Oil and gas production
- Industrial
- Drainage
- Conduit
- Sheet
- Bottles
- Fuel Tanks
- Cable insulation



What is polyethylene?

- Polyethylene (PE): A thermoplastic produced from polymerization of ethylene
- Ethylene is a derivative of ethane, a constituent within natural gas or derived from oil
- Ethane is a very clean molecule, energy efficient in production
- PE is non-polar, making it slippery (low surface polarity)
- Saturated bonds resist most chemical attack
- PE is environmentally-friendly



- This unique polymeric structure of HDPE yields a Visco-Elastic material
- Viscous: Requires time to deform and to recover deformation
- Elastic: Immediate recoverable deformation
- HDPE materials are blended or "tuned" for ideal combinations of material properties
- Typical Max. Operating Temp. is °140F (°60C) for pressure pipe

HDPE PROPERTIES - CELL CLASSIFICATION

ACCORDING TO ASTM D3350

				D3350						
	TABLE 1	PRIMARY	PROPER	TIES - CE	LL CLAS	SIFICATI	ON LIMI	TS		
PROPARTY	Test Method	0	1	2	3	4	5	6	7	8
1. Density, g/cm³	D1505	Unspecified	0.925 or lower	>0.925- >0.940-	0.940 0.947	>0.947- 0.955	>0.955		Specify Value	
2. Melt index	D1238	Unspecified	>1.0	1.0 to 0.4	<0.4 10 0.15	<0.15	В		Specify Value	<u> 2</u> 20
3. Flexural modulus, MPa (Psi)	D790	Unspecified	<138 (<20 000)	138 <276 (20 000 to <40 000)	276- <552 (40 000 to 80 000)	552- <758 (80 000 to 110 000)	758- <1103 (110 000 to <160 000)	>1103 (>160 000)	Specify Value	
4. Tensile strength al vield, MPa (Psi)	D638	Unspecified	<15 (<2200)	15-<18 (2200- <2600)	18-<21 (2600 - <3000)	21-<24 (3000 - <3500)	24-<28 (3500 - -4000)	>28 (>4000)	Specify Value	
5. Slow Crack Growth resistance I. ESCR a.Test condition	D1695	Unspecified	Α	В	C	C				Specif Value
(100% Igepal,) b.Test duration,h c.failure, max, % II.PENT (hours)	F1473	Unspecified	48 50	24 50	192 20	600V 20	:=:: :=:::	-		:==: :=0
Molded plaque 80°C, 2.4 MPa Notch depth, F1473, Table 1		Unspecified Unspecified				10	30	100	500	Specif Value
Hydrostatic strength Classification I. Hydrostatic design basis, MPa (PSi), (23°C) II. Minimum required strength, MPa (psi), (20°C)	D2837 ISO 12162	NRP	5.52 (800) -	6.89 (1000) -	8.62 (1250) -	11.03 (1600) -	b (1160)	10 (1450)		STATE OF THE PARTY

PLASTICS-PIPE-INSTITUTE

THE VOICE OF AN INDUSTRY

- Cell classifications define if a material is low-, medium-, or high-density
- ASTM D3350: "Standard Specification for Polyethylene Plastics Pipe and Fitting Materials"



HDPE PROPERTIES - CELL CLASSIFICATION



ACCORDING TO ASTM D3350

THE VOICE OF AN INDUSTRY

- Minimum Cell Classification for HDPE conduit is PE100 OR pe80
- tHIS IS WHAT MEENS:

Property	Value/Range	Test Method
Density Test Method= 3 Melt Index = 3 Flexural Modulus = 4 Tensile Strength, Yield = 4 Slow Crack Growth Resistance = 8 Hydrostatic Strength Classification = 0	0.94 g/cm3 < 0.4 g/10 min. ≥ 80,000 psi (≥ 552 MPa) ≥ 3,000 psi (≥ 21 MPa) F10 ≥ 96 hours (10% Igepal) N/A	ASTM D1505 ASTM D1238 ASTM D790 ASTM D638 ASTM D1693 ASTM D2837

C = Black using Carbon Black, whereas E = Colored with UV Stabilizer

TYPICAL CONDUIT GRADE

Property	Value/Range	Test Method
 Tensile Elongation to Break Brittleness Temperature Melt Temperature Auto-Ignition Dielectric Strength Coefficient of Friction 	> 400% < -139°F (-95°C) ~ 250°F (121°C) > 650°F (340°C) 500-600 Volts/mil (19 – 23 kV/mm) 0.29	ASTM D638 ASTM D746A ASTM D746A







COMMUNICATION CONDUITS FULLY PROTECTED CABLES

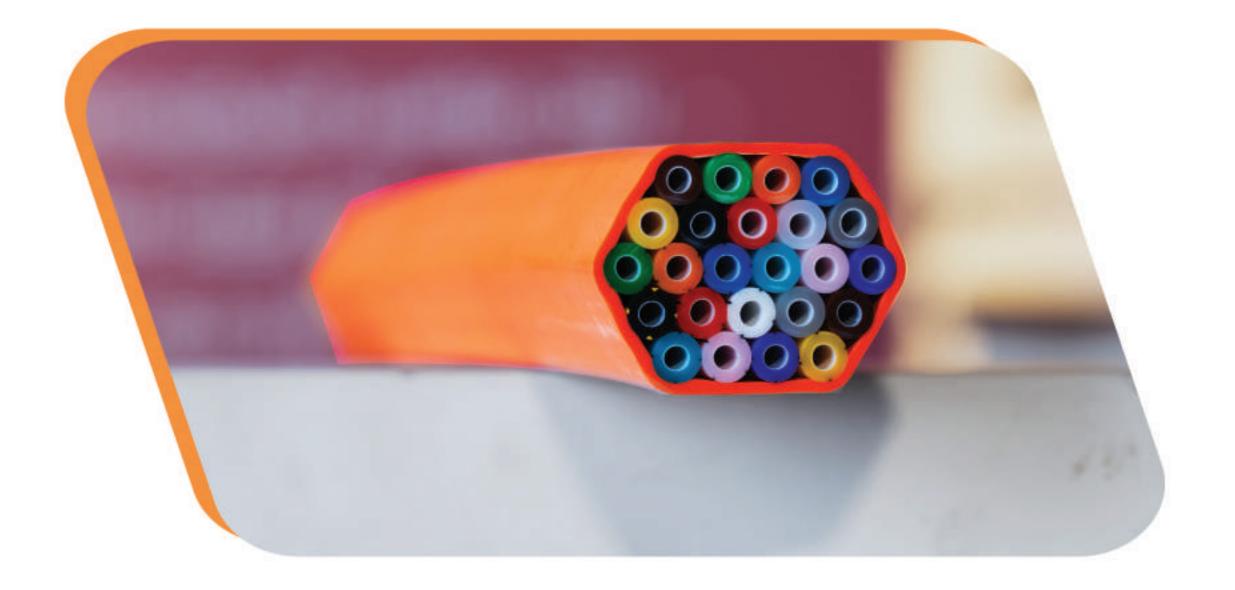
HDPE CONDUIT INTRODUCTION

- High density polyethylene (HDPE) conduit is the preferred material to house and protect electrical power and telecommunications cables
- HDPE offers unmatched corrosion and chemical resistance, is flexible and durable, and is available in long reel lengths to reduce joints and installation time
- HDPE conduit is available in a variety of sizes, colors, dimensions and lengths

HDPE CONDUIT BENEFITS

Not susceptible to corrosion
Moisture-proof and watertight
Can be installed around underground obstacles
Resists brittleness due to aging or cold weather
Eliminates maintenance common to aerial networks
Easy installation due to long lengths and high pull strength
Low coefficient of friction allows easier long-distance cable pulls
Accommodates gradual changes in direction and elevation
Bends and flexes without breakage, even with ground heaves or shifts,
over a wide range of temperatures
High ductility resists damage during transportation, handling, and installation
and retains impact resistance





Example: Three-in-One HDPE conduit with inner duct Example: Multi-color reel of 2 inch IPS conduit



Various solid colors and stripe combinations are available



HDPE CONDUIT INTRODUCTION

- OD sizing systems include IPS wall types SDR9, SDR11, SDR 13.5, DR 15.5,
 Schedule 40, and Schedule 80
- ID sizing systems include «True Sized" and SIDR Wall thickness is described by the Dimension Ratio (DR)* which typically
- ranges from SDR 9 to SDR 17 for diameters up to -12inch Standards such as ASTM F2160, NEMA TC 7, UL 651A specify exact dimensions

RATIO OF OUTSIDE DIAMETER TO WALL THICKNESS.
THE LOWER THE DR NUMBER,
THE THICKER THE WALL, RELATIVE TO OTHER DIMENSION
RATIOS. SOME DIMENSION RATIOS ARE NUMERICALLY
"STANDARD" AND REFERRED TO AS "SDR"

NORMAL	DR 1	5.5	SDF	13.5	SD	R 11	SD	R 9	Sched	ule 40	Sche	dule 80
SIZE	MIN	TOL										
	in (mm)											
1/2	0.052	+0.020	0.062	+0.020	0.078	+0.020	0.093	+0.020	0.109	+0.020	0.147	+0.020
2/4	(13.00)	+(0.51)	(1.57)	+(0.51)	(1.93)	+(0.51)	(2.36)	+(0.51)	(2.77)	+(0.51)	(3.73)	+(0.51)
3/4	0.058	+0.020	0.078	+0.020	0.095	+0.020	0.117	+0.020	0.113	+0.020	0.154	+0.020
	(1.73)	+(0.51)	(1.98)	+(0.51)	(2.41)	+(0.51)	(2.97)	+(0.51)	(2.87)	+(0.51)	(3.91)	+(0.51)
1	0.084	+0.020	0.097	+0.020	0.120	+0.020	0.146	+0.020	0.133	+0.020	0.179	+0.021
	(2.13)	+(0.51)	(2.46)	+(0.51)	(3.05)	+(0.51)	(3.71)	+(0.51)	(3.33)	+(0.51)	(4.55)	+(0.53)
11/4	0.107	+0.020	0.123	+0.020	0.151	+0.020	0.184	+0.022	0.140	+0.020	0.191	+0.023
	(2.72)	+(0.51)	(3.12)	+(0.51)	(3.84)	+(0.51)	(4.76)	+(0.56)	(3.56)	+(0.51)	(4.85)	+(0.58)
1 1/2	0.123	+0.020	0.141	+0.020	0.173	+0.021	0.211	+0.025	0.145	+0.020	0.200	+0.024
	(3.12)	+(0.51)	(3.58)	+(0.51)	(4.39)	+(0.53)	(5.36)	+(0.64)	(3.68)	+(0.51)	(5.08)	+(0.61)
2	0.153	+0.020	0.176	+0.020	0.216	+0.023	0.264	+0.032	0.154	+0.020	0.218	+0.026
41	(3.89)	+(0.51)	(4.47)	+(0.51)	(5.49)	+(0.66)	(6.71)	+(0.81)	(03.91)	+(0.51)	(5.54)	+(0.66)
2 1/2	0.185	+0.022	0.213	+0.020	0.261	+0.031	0.319	+0.038	0.203	+0.024	0.276	+0.033
	(4.70)	+(0.56)	(5.41)	+(0.51)	(6.64)	+(0.80)	(8.11)	+(0.97)	(5.16)	+(0.61)	(7.01)	+(0.84)
3	0.226	+0.027	0.259	+0.031	0.318	+0.038	0.389	+0.047	0.216	+0.026	0.300	+0.036
	(5.74)	+(0.69)	(6.58)	+(0.79)	(8.08)	+(0.97)	(9.88)	+(1.19)	(5.49)	+(0.66)	(7.62)	+(0.91)

Excerpt from ASTM F16-2160 shows wide range of wall types

SUMMARY

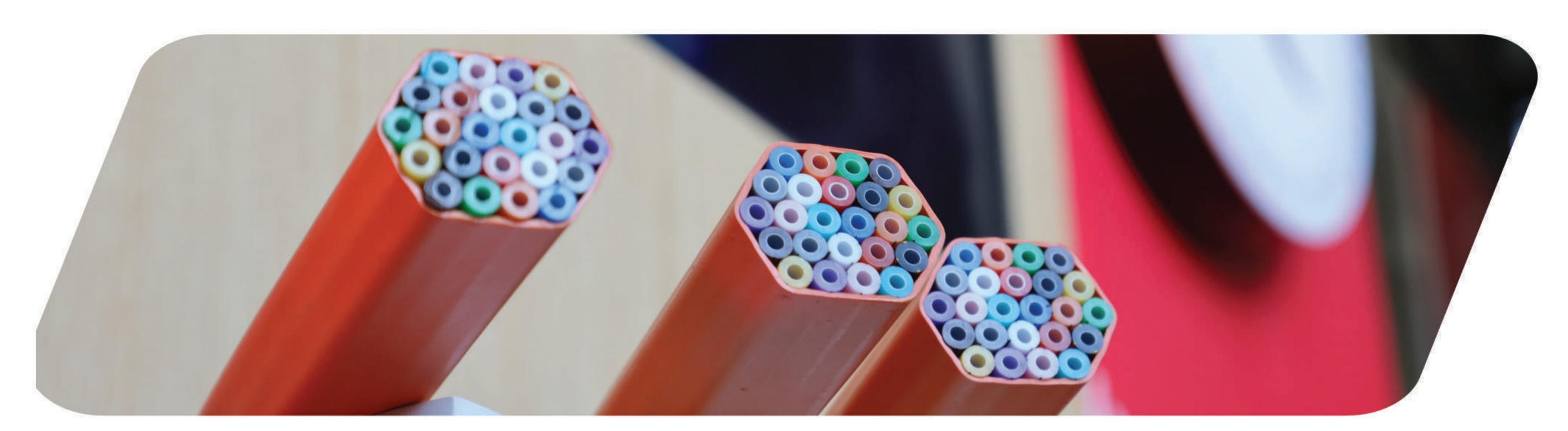
HDPE's physical properties make it ideally-suited for a wide range of installation applications protecting both power and communications cables HDPE Conduit is available in a variety of diameters, wall types, colors, configurations HDPE Conduit can be supplied with special features including color & stripes, added UV protection for aerial, pull tapes, lubrication and/or cables which are factory-installed

COMMUNICATION CONDUITS FULLY PROTECTED CABLES

ADVANTAGES



Telecommunication conduits provide necessary security and protection for telecommunication and electrical cables against harsh and high-pressured environments. The company also produces customized ducts in coils which provide convenience in installation and for meeting specific construction needs. Alrowad Plastic pipes even provides sequential foot markings for ease of installation.



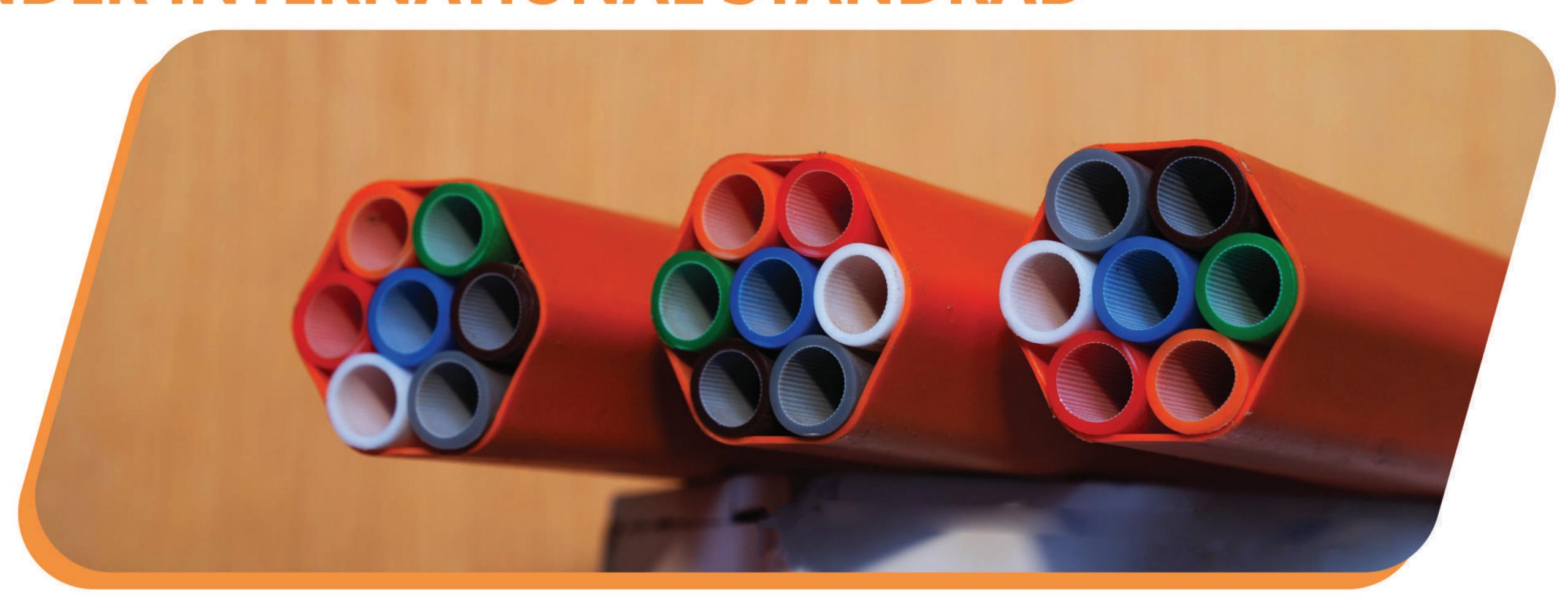
- High tensile strength to endure heavy external loads.
- Long-term strength for increased life and performance
- Lower installation cost
- Resistance to corrosive chemicals and aggressive soils
- Moisture proof and watertight when fusion welded
- No biological growth
- Low resistance to pulled-in cable
- Color coding for easy identification



CONDUIT STANDARDS

AL ROWAD PLASTIC PIPES ARE

UNDER INTERNATIONAL STANDRAD



HDPE Pipe: ISO, ASTMD, EN

Sizes: Manufactured up to 630 mm sizes at various standard dimension ratio (SDR). Pipes color: The color of the PE pipe is black mainly to provide high protection to degradation due to the UV radiation and so there is no limitation on the external use of the PE pipe as they are designed to withstand continuous solar heat for at least 50 years.

Pipes Length: Up to OD 125mm the PE pipes are available in coils of 100 meters standard length. Large diameters supplied in straight rods 12 meters long. Available Customization upon request: Length, Color, SDR Classes and Variations Thermal Expansion and Contraction: The coefficient of thermal expansion/contraction for PE Pipe is approximately 0.0002 mm/mm/°C

Raw Materials: Alrowad Plastic pipes Polyethylene pipes are manufactured using: HDPE - High density polyethylene

The above materials contain high-class chosen polymer and high-quality Carbon-Black to get long life under every working and weather conditions.

Each material has its application field, attractions and particular benefits depending on working and installation condition, equipment available and personal preference. The raw materials used by Alrowad Plastic pipes are carefully selected among the best available on the market. Produced by the polymerization of ethylene they are the outcome of long exhaustive research carried out by polymer manufacturers in company labs and specialized institutes.

The average system lifetime of polymers is up to 50 years. Carrying out various pressure tests on pipe specimens examines the polymer strength. In compliance with ISO/EN/ASTM Standards tests are performed at a fixed wall hoop stress s and temperature T and their duration

recorded on logarithmic graphs (stress s, lifetime t, temperature T) obtaining a series of lines called regression curves. From such curves, which are different for each material, it is possible to predict a pipe lifetime or, after fixing the working period t and temperature T, trace back to the wall stress

and therefore calculate a pipe wall thickness.

COMMUNICATION CONDUITS FULLY PROTECTED CABLES

TECHNICAL SPECIFICATIONS

Alrowad produces micro ducts system for fiber optic networks made of High Density Polyethylene (HDPE) with specific properties smoothor longitudinally grooved inner surface. Co- extruded inner surface is made of silicon

RAW MATERIAL AL ROWAD

Uses the best quality of raw material that meets global standards.



RANGEOFCOLORS & DIMENSIONS

COMMUNICATION CONDUITS FULLY PROTECTED CABLES

RANGE OF COLRS

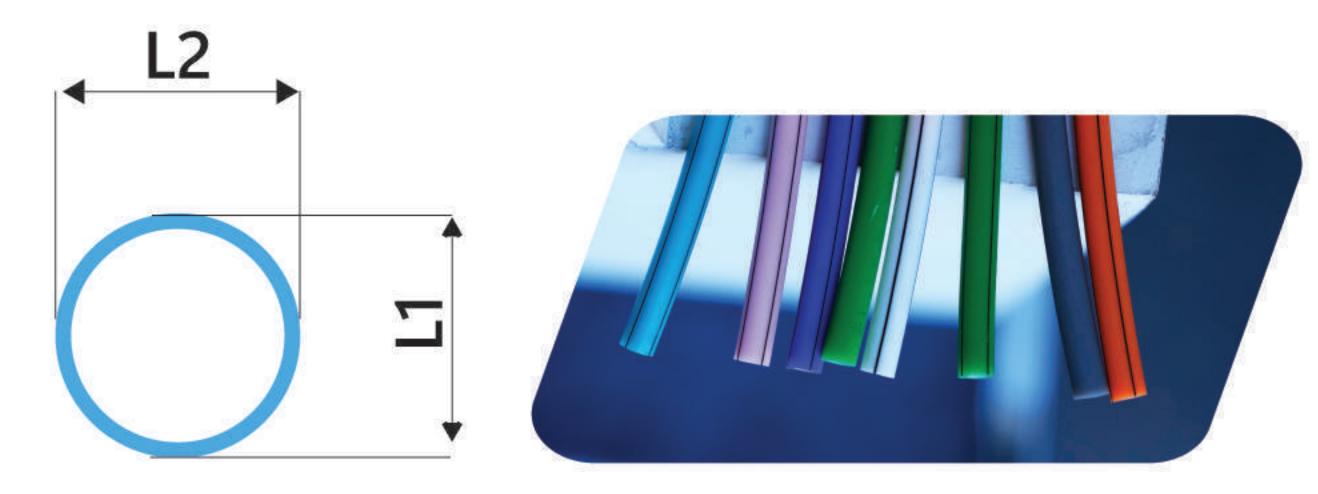


Properties of High Density Polyethylene

MFR indicator Density	0.39(g/10min) 0.950(g/cm)	ISO 1133 - 1 ISO 1183 - 1
Tensile Elongation	700%	ASTM D638
OIT DSC	>30% 130°c	ISO 11357 - 6 ISO 3157
Dilelectric Strength	20Kv/mm	IEC 60253 - 1

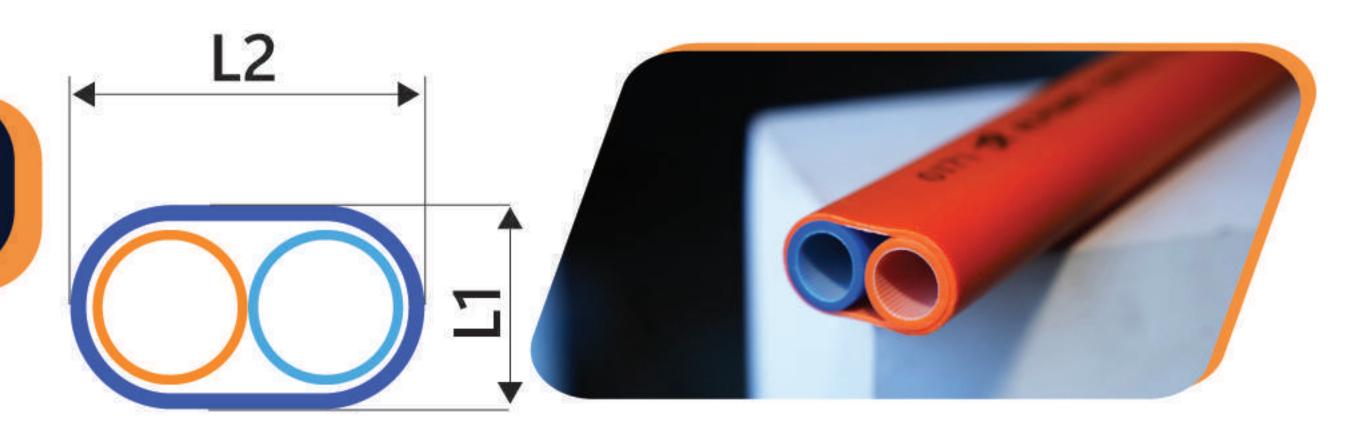


SINGLE MICRO DUCTS



Microduct mm	Outer diameter	Inner diameter	Thickness (mm)	SDR	Tolarance
7/3.5	7	3.5	1.75	4	+/- 0.1
7/4	7	4	1.5	4	+/- 0.1
8/5	8	5	1.5	5	+/- 0.1
10/8	10	8	1	10	+/- 0.1
12/8	12	8	2	12	+/- 0.1
14/10	14	10	2	7	+/- 0.1
16/12	16	12	2	8	+/- 0.1
20/16	20	16	2	10	+/- 0.1
25/20	25	20	2.5	10	+/- 0.1
28/24	28	24	2		+/- 0.1
Nom blowing	Pressure (bar)		≤15		<u>,</u>
Ovality			≤5%		

2 WAY MICRODUCT BUNDLES

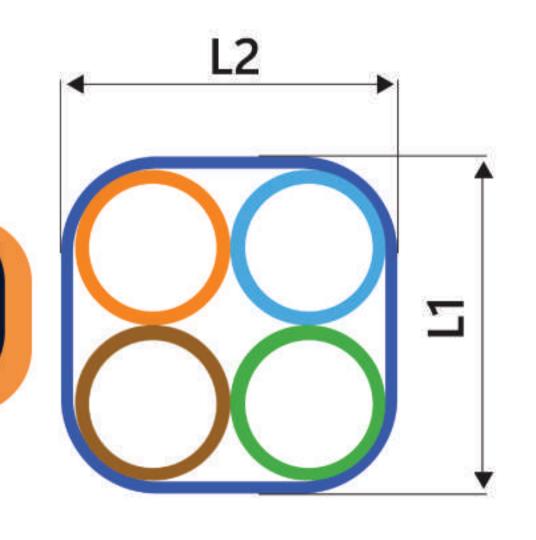


Microduct mm	Width mm	Height mm	Lenght per drum (m)	Thickness (mm)	Tolarance
7/3.5	16	9	4000	1	+/- 0.1
7/4	16	9	4000	1	+/- 0.1
8/5	18	10	3000	1	+/- 0.1
10/8	22	12	2000	1	+/- 0.1
12/8	26	14	2000	1	+/- 0.1
14/10	30	16	2000	1	+/- 0.1
16/12	34	18	2000		+/- 0.1
20/16	42	22	2000	1	+/- 0.1
25/20	52	27	1000	1	+/- 0.1
28/24	58	30	1000	1	+/- 0.1

COMMUNICATION CONDUITS

FULLY PROTECTED CABLES

4 WAY MICRODUCT BUNDLES



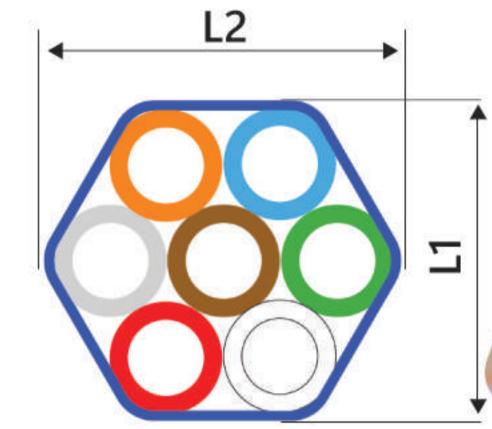


Microduct mm	Width mm	Height mm	Lenght per drum (m)	Thickness (mm)	Tolarance
7/3.5	16	16	4000	1	+/- 0.1
7/4	16	16	4000	1	+/- 0.1
8/5	18	18	3000	1	+/- 0.1
10/8	22	22	2000	1	+/- 0.1
12/8	26	26	2000	1	+/- 0.1
14/10	30	30	2000	1	+/- 0.1
16/12	34	34	2000	1	+/- 0.1
20/16	42	42	1000	1	+/- 0.1
25/20	52	52	800	1	+/- 0.1
28/24	58	58	800	1	+/- 0.1

Nom blowing Pressure (bar)

≤ 15

7 WAY MICRODUCT BUNDLES





Microduct mm	Width mm	Height mm	Lenght per drum (m)	Thickness (mm)	Tolarance
7/3.5	16	9	4000	1	+/- 0.1
7/4	16	9	4000	1	+/- 0.1
8/5	18	10	3000	1	+/- 0.1
10/8	22	12	2000	1	+/- 0.1
12/8	26	14	2000	1	+/- 0.1
14/10	30	16	2000	1	+/- 0.1
16/12	34	18	2000	1	+/- 0.1
20/16	42	22	2000	1	+/- 0.1
25/20	52	27	1000	1	+/- 0.1
28/24	58	30	1000	1	+/- 0.1

Nom blowing Pressure (bar)

≤ 15



12 WAY MICRODUCT BUNDLES



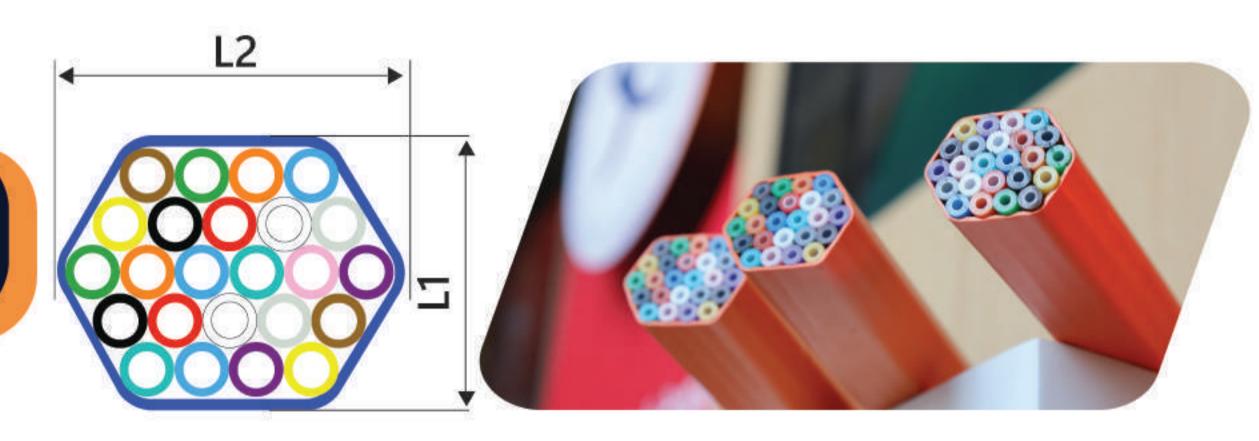
Microduct mm	Width mm	Height mm	Lenght per drum (m)	Thickness (mm)	Tolarance
7/3.5	30	27	2000	1	+/- 0.1
7/4	30	27	2000	1	+/- 0.1
8/5	34	30.6	2000	1	+/- 0.1
10/8	42	37.8	1000	1	+/- 0.1

Nom blowing Pressure (bar)

 ≤ 15

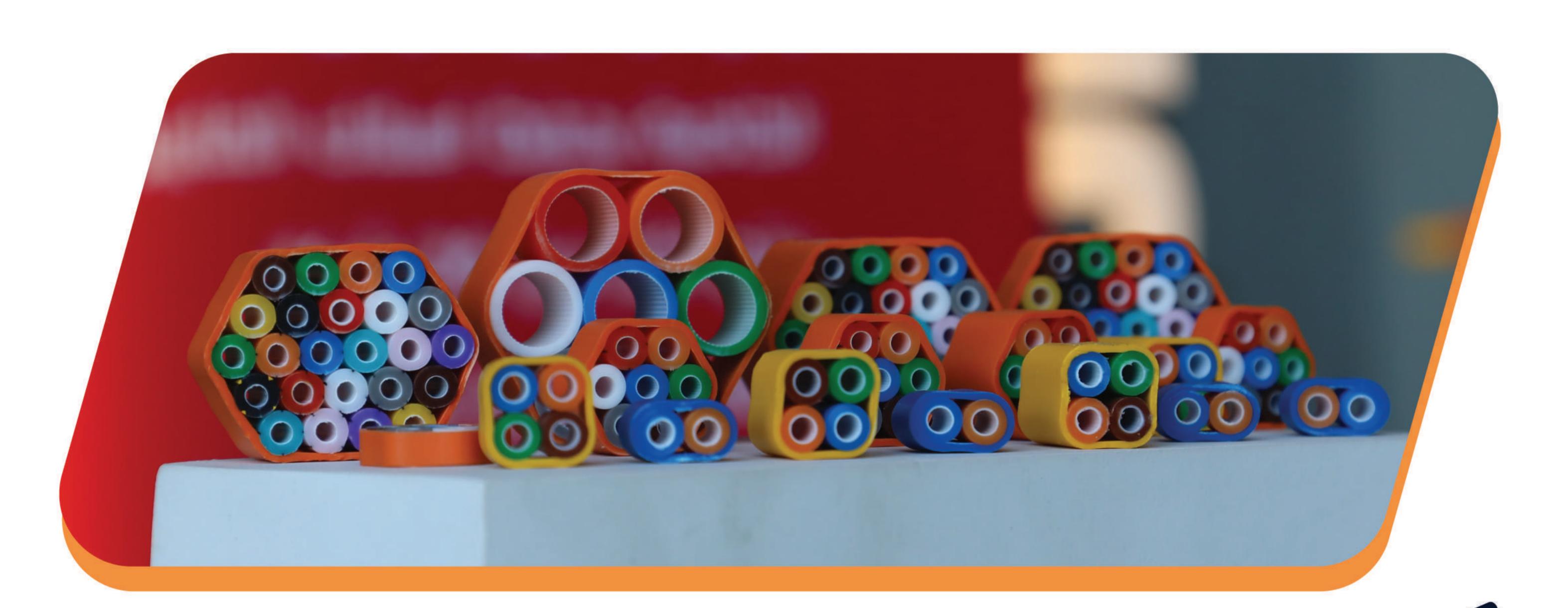
 ≤ 15

24 WAY MICRODUCT BUNDLES



Microduct mm	Width mm	Height mm	Lenght per drum (m)	Thickness (mm)	Tolarance
7/3.5	44	33	1000	1	+/- 0.1
7/4	44	33	1000	1	+/- 0.1
8/5	50	38	1000	1	+/- 0.1

Nom blowing Pressure (bar)











GROOVED & SMOOTH WALLCONDUITS

FULLY PROTECTED CABLES

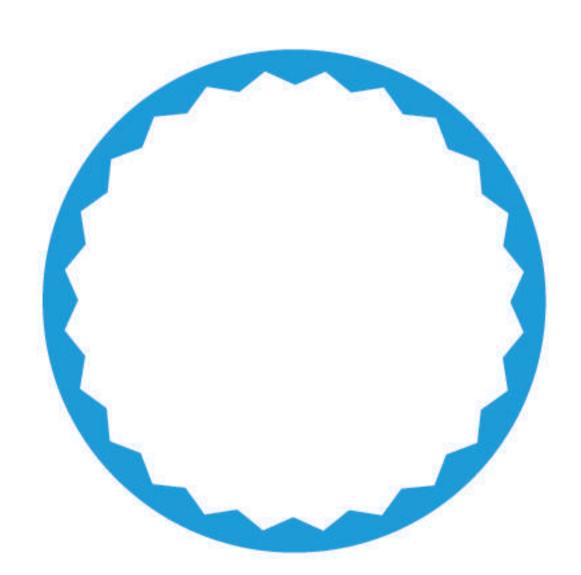
GROOVED WALL CONDITS:

HDPE CONDUIT

PRODUCT FEATURES:

- Cables pre-installed in HDPE
- Standard wall thickness
- Pre-lubricated during assembly process
- Sizes: 50-16 mm
- Low-sliding friction to aid in the pulling and jetting of Micro-Guard and micro-cables
- High tensile strength material for longer pulling distances
- Variety of colors/ stripes for identification paralleling available
- Sequential-marked meters
- UV-formulated material for outside storage
- Complete line of fittings and accessories







SMOOTH WALL CONDUIT:

HDPE CONDUIT

PRODUCT FEATURES AND ATTRIBUTES:

- Cables pre-installed in HDPE
- Standard wall thickness
- Available in sizes
- Sizes: 1200-16 mm
- Low-sliding friction to aid in the pulling and jetting of Micro-Guard and micro-cables
- High tensile strength material for longer pulling distances
- Variety of colors/ stripes for identification paralleling available
- Sequential-marked meters
- UV-formulated material for outside storage
- Complete line of fittings and accessories





Size	SDR	Size SDR Available Colors
12 mm	11	
14 mm	7	
20 mm	11.17	
20 mm	13.17	
32 mm	11.26	
32mm	17	
32 mm	7.9	
50mm	11	
50mm	17	





MICRODUCT CONNECTORS & ACCESSORIES





MICRODUCT CONNECTORS

&ACCESSORIES

FULLY PROTECTED CABLES

MICRODUCT Connectors:

Reusable connectors with a latch mechanism in the form of a single metal anchoring ring, which grips into the microduct surface. Connectors are used to connect single micro ducts. And enable fast and easy installation,

Microducts are installed with a latching method without using any additional tools,

Connectors are made of transparent elements which allow to verify if there is a micro cable inside the microduct or not.

Connectors ensure water and dust tightness.

Connectors are equipped with locking clips which protect against accidental disconnection of the microducts.

MICRODUCT Accessories:

ACCESSORIES:

SELECTED ACCESSORIES HIGHLIGHTED HERE:

- End cap
- Gas Block
- Straight Connector
- Reducers
- In-Line Micro duct Closure
- T-Type Microduct Closure





MICRODUCT Accessories:

ACCESSORIES:

SELECTED ACCESSORIES HIGHLIGHTED HERE:

- End cap
- Gas Block
- Straight Connector
- Reducers
- In-Line Micro duct Closure
- T-Type Microduct Closure

STRAIGHT CONNECTOR

INTRODUCTION

Straight Connector: for quick and easy splicing of micro ducts, the body is transparent for easy fault location during Installation. To enable cable blowing, the connector is designed to operate at 15 bars without leakage The Push-fit straight connectors manufactured with high quality materials and transparent body assure easy and quick installation, connector can be re-used 10 times remaining maintained the high- performance requirements for air- blown installation systems.

APPLICATION:

The straight connectors for microducts provide a quick, easy and secure connection of microducts, used to join sections of microducts

FEATURES:

- Used for jointing two micro ducts.
- Straight connector installation is simple and carried out in a few seconds.
- Easy "push-in" installation
- Size (mm): For 3 to 20 mm O.D. microducts
- Material: Clear PC
- Leakage Pressure: 15 bar
- Negative Pressure: 750mm Hg
- Proof Pressure: 25 bar
- Temperature Range: -10 ~60°



MICRODUCT CONNECTORS

&ACCESSORIES

FULLY PROTECTED CABLES

MICRODUCT Accessories:

END CAPS

INTRODUCTION

End Caps: is used for quick and easy tighten the ends of unused primary tube. Provides water resistance and mud resistance. It is also used in combination with the valve end stop connector during installation of micro ducts into existing cable ducts.

APPLICATION:

The end cap for permanent or temporarily sealing of unused microducts to prevent obstacles such as water, mud, dust and so on.

FEATURES:

The End Cap are tested for best functionality in combination with the air blown fibers unit and air blown fibers cables.

- Easy "push-in" installation
- For 3 to 20 mm O.D. microducts
- Material: Clear PC
- Leakage Pressure: 15 bar
- Negative Pressure: 750mm Hg
- Proof Pressure: 25 bar
- Temperature Range: -10 ~60°C





MICRODUCT Accessories:

REDUCERS

INTRODUCTION

Microduct Reducer: connectors for quick and easy splicing of microducts allows interconnection between microducts that are difference in outer diameters, the body is transparent for easy fault location during Installation, to enable cable blowing, the Reducer connector is designed to operate at 15 bars without leakage. The Push-fit reducer connectors manufactured with high quality materials and transparent body assure easy and quick installation, connector can be re-used 10 times remaining maintained the high- performance requirements for air- blown installation systems.

APPLICATION:

The Reducer allows interconnection between microducts that are difference in outer diameters. Usually, this is used in the point of transition from DB to DI microducts entering the office, house.

FEATURES:

The reducer connectors are tested for best functionality in combination with the air blown fibers unit and air blown fibers cablesEasy "push-in" installation

- Easy "push-in" installation
- For 3 to 20 mm O.D. microducts
- Material: Clear PC
- Leakage Pressure: 15 bar
- Negative Pressure: 750mm Hg
- Proof Pressure: 25 bar
- Temperature Range: -10 ~60°C



MICRODUCT CONNECTORS

&ACCESSORIES

FULLY PROTECTED CABLES

MICRODUCT Accessories:

GAS BLOCK

INTRODUCTION

Gas Block: is used when there is a need to block gas to pass freely into different micro-duct sections. This could for example be necessary when changing from outdoor to indoor installations.

manufactured with high quality materials and transparent body assure easy and quick installation, connector can be re-used 10 times remaining maintained the high-performance requirements for air-blown installation systems.

APPLICATION:

The Gas block connector works in a similar way as the standard connector when jointing micro ducts but has a compressible rubber gasket that is sealed after the cable has been installed.

FEATURES:

- Easy "push-in" installation
- For 3 to 20 mm O.D. microducts
- Material: Clear PC
- Leakage Pressure: 15 bar
- Temperature Range: -10 ~60°C





MICRODUCT Accessories:

IN-LINE MICRODUCT CLOSURE

INTRODUCTION

It is designed by modular method to change the length of closure and branch direction. It is possible to assemble or dis-assemble the closure without any special tools. The maintenance of In-Line closure can be done without cutting the ducts, and can be completed only by reopening upper modular part. In-Line closure is designed to connect several microduct bundles and to branch-off tubes without any interruption of connectivity. manufactured with high quality materials and transparent body assure easy and quick installation, connector can be re-used 10 times remaining maintained the high- performance requirements for air- blown installation systems.

APPLICATION:

The branch closure is typically used in place of a microduct to protect the connector and the end cap for direct burial. Branch closure is designed to connect several microducts and to branch-off tubes without any interruption of connectivity. Using this closure, the ducts are protected and easy to reopen for maintenance.

FEATURES:

The branch closure is tested for best functionality in combination with the air blown fibers unit and air blown fibers cables.

- Light weight
- Easy installation
- Easy branching
- Microduct protection at joint/distribution point, can accommodate various types of microduct
- Used for DB 5/3.5mm and TWD 7/3.5mm microducts
- Branch Closure has different types (6-way and 7-way types)





COMMUNICATION CONDUITS

FULLYPROTECTEDCABLES

