

DUROFLEX[®] PLUS

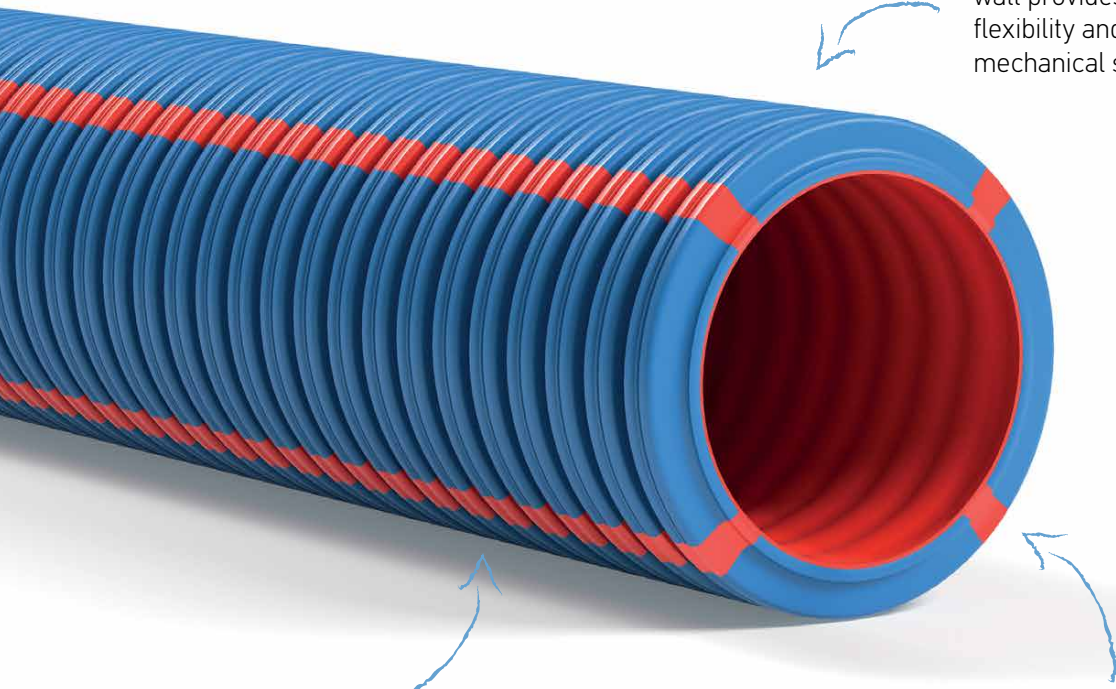
750Nt

3 layers conduit

**NEW ERA FOR
CONCEALED TYPE
INSTALLATIONS
IN CONCRETE**

KOUVIDIS[®]

forever safe



Layer 1

The corrugated external wall provides the necessary flexibility and the required mechanical strength

Layer 2

The internal wall ensures the smooth insertion of the cables during the installation

Layer 3

The third independent layer of longitudinal lines, of indelible color, creates a long-lasting color marking between electrical installations and communication systems

DUROFLEX® PLUS 750Nt

new generation of 3layer conduits for concealed type installations in concrete



Faster and easier cable insertion



Halogen free



Low smoke emissions

at a glance ...

Applying its manufacturing know-how on structured wall conduits in smaller diameters, KOUVIDIS becomes the first company in Europe daring such an investment, achieving the maximum easiness for cable routing.

Following the method of co-extrusion of 3 layers along with the use of special stabilized and halogen free raw materials, DUROFLEX PLUS conduits achieve high mechanical and chemical resistance and make Electrician's work easier and safer while at the same time they leave a low environmental footprint.



Patent Protected: Small-diameters Double Wall Conduit (1009144), Anti-rodent protection (EP2698792), Anti-static technology (1009810), Color Marking (1009158)

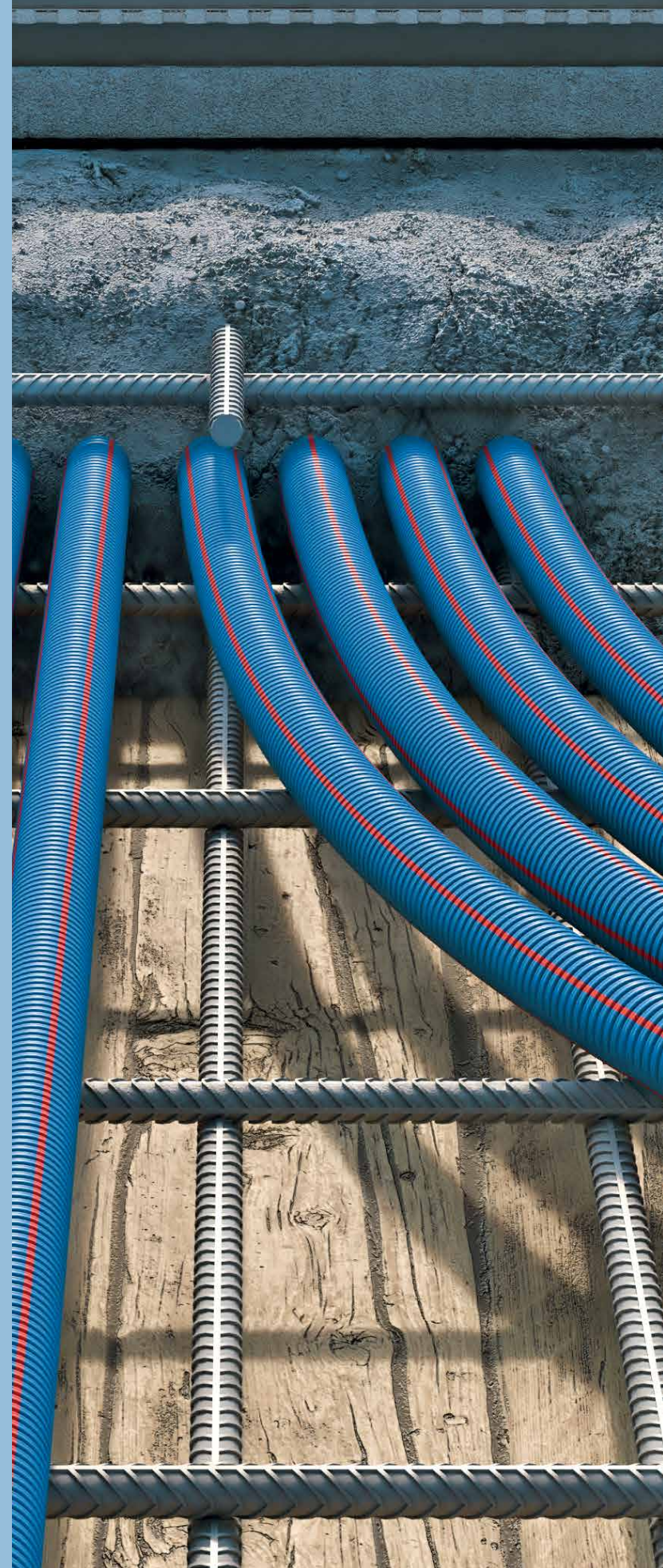
KOUVIDIS is the first European company investing in the production of double structured wall conduits in small diameters of Ø20, Ø25, Ø32. This Pan-European Innovation was awarded by the Greek Marketing Academy with the "Innovative Industrial Product" Gold Award.

50 %

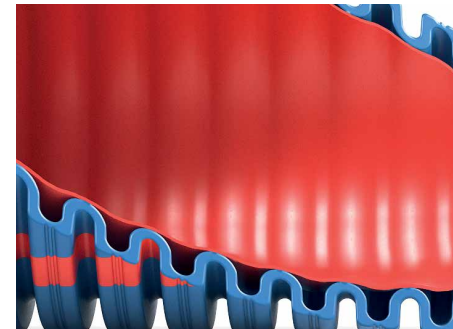


Lower friction

(IEC/TR 62470)



DUROFLEX® PLUS faster and easier



Faster installation

The smooth inner layer of DUROFLEX® PLUS conduits speeds up the electrician's work during the insertion of cables.



Easier installation

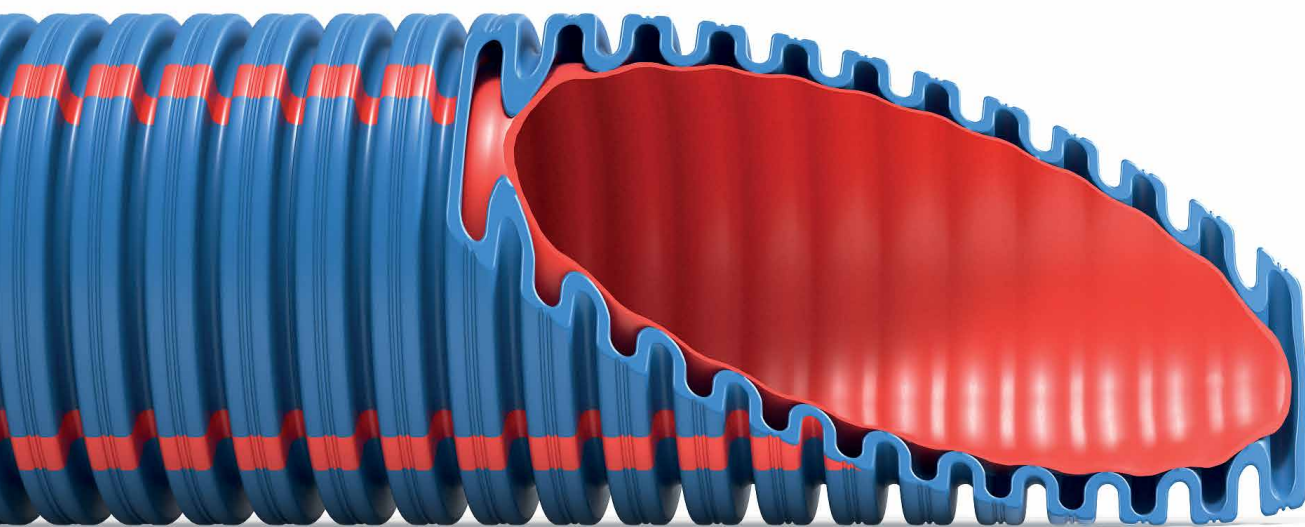
A special slip material is added in the internal layer of DUROFLEX® PLUS conduits, reducing by 50% the friction (test conducted according to IEC/TR 62470) and thus the applied force that is required for cable routing.




Safer installation


DUROFLEX® PLUS conduits are adapted to the requirements of the 364/2016/EU Regulation for the fire protection in buildings. They are made from 100% halogen free raw materials, and low smoke (EN 50642, EN 61034-2) in order to protect people and their property in case of a fire.


NEW
3 layers conduit





main advantages of
DUROFLEX® PLUS conduits


- 


50% lower friction due to special slip material added in the internal layer that ensures the smooth insertion of cables
- 


Longitudinal stripes of indelible color distinguish the cables that are in the conduits. Red=Power cables | Green = Telecommunication cables
- 


Made from 100% halogen free and heavy metals free (RoHS) raw materials
- 


Not attractive to rodents. The internal layer incorporates animal repellent
- 


Low smoke emissions (EN 61034-2) and low toxicity of the gases produced by combustion (EN 60754-2)
- 

Very good performance over concrete chemical substances
- 

The ideal solution for concealed type installations, especially in concrete
- 

High mechanical resistance in high temperature of 105°C
- 

Saving cost due to the faster installation
- 

New specially designed packaging that saves up to **50%** more storage space.
- 

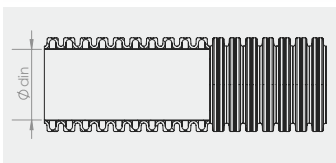
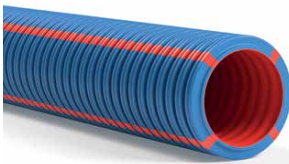
Test certification in accordance with the European production standards EN 61386-22, EN 50642, EN 61034-2 and EN 60754-2 by the German laboratory VDE

Medium Type (750Nt)

RAL 3020 red / inner layer

RAL 5019 blue / outer layer

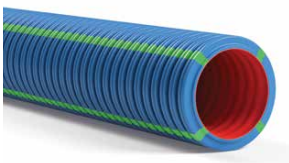
RAL 3020 Indelible red / Longitudinal lines



Application Standards: EN 61386.22, EN 50642, EN 61034-2, EN 60754-2

Reference Standards: NF P 98-332

European Directives: 2014/35/EE (LVD), 2011/65/EE (RoHS)



DUROFLEX®PLUS conduits are also available with green color marking



Patent Protected: EP 2698792, 1009144, 1009810, 1009158

DUROFLEX® PLUS IAS

33332

Properties		Class
Resistance to compression	750 Nt	3
Resistance to impact	2J (at -15°C)	3
Lower temperature range	-15°C	3
Upper temperature range	+105°C	3
Resistance to bending	Pliable	2
Electrical characteristics	With electrical insulated characteristics	2
Protection against ingress of solid objects	min IP65	6
Protection against ingress of water		5
Resistance against corrosion	Not applicable	0
Tensile strength	None declared	0
Resistance to flame propagating	Non flame propagating	1
Suspended load capacity	None declared	0

Additional properties

Raw material	Halogen free, heavy metals free (RoHS) and specially stabilized thermoplastic PP
Ageing resistance	UV stabilized (≥ 5 years)
Low friction (internal layer)	Special material (slip) speeds up the routing of cables
Rodent repellent	Not attractive to rodents (the internal layer incorporates rodent repellent)
Color marking	Longitudinal stripes of indelible color indicate the power of the protected cables
Halogen free	No toxic or corrosive gases in case of fire
Antistatic technology	Protection against static electricity

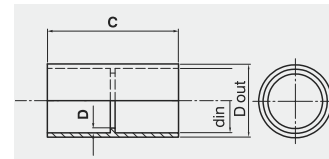
+ Structured wall conduits The external wall of the conduit is corrugated and the internal wall is smooth. Marked using embossed printing and packed with 100% recyclable polyethylene film including safety straps and an informative blue color label.

Ideal for concealed type installations in concrete, hollow walls and underplaster.

Type	Part number for electrical installations / telecom-munications	Ø out	Ø in	kg	(m)
Ø20	2009020/2016020	20	13.2	50	3200
Ø25	2009025/2016025	25	18.1	25	1800
Ø32	2009032/2016032	32	23.7	25	1400

Fittings

RAL 7035 Light Grey



Application Standards: EN 61386.01

Reference Standards: EN 50642, EN 61034-2, EN 60754-2



Coupler for DUROFLEX® PLUS IAS conduits

Properties

Raw material Halogen free, heavy metals free (RoHS) and specially stabilized thermoplastic HDPE

Type	Part number	Ø out	Ø in	C mm	mm	mm
Ø20	4017020	23.5	20.0	51.5	30	1890
Ø25	4017025	28.5	25.0	51.5	30	1440
Ø32	4017032	37.0	32.0	65.0	20	560

General properties for Fittings

Temperature range	-25°C to +60°C
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagating	Non flame propagating
Halogen free	No toxic or corrosive gases in case of fire



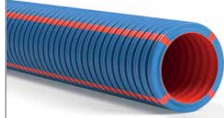



**KOUVIDIS®
MULTI-LAYER CONDUITS**

- Cost savings due to easy installation
- 100% adaptation to the latest technology of plastic piping systems
- High mechanical resistance and increased safety
- Lower environmental footprint



















multi-layer conduits

Multi-layer conduits are fully adapted to the new technology of plastics, ensure greater mechanical strength, facilitate installation due to their multiple benefits and guarantee an improved environmental footprint. KOUVIDIS has been active in the multi-layer conduit market since 2012, having developed innovative products for various applications.

We use two different technologies for welding the individual layers:

	 DUROFLEX® PLUS IAS	 SUPERFLEX® PLUS IAS
Production technology	Double Structured Wall (DW)	Double Layer (DL)
Layer 1	Corrugated external wall	
Layer 2	Smooth internal wall	Corrugated internal layer following the geometry of the outer wall
Layer 3	An independent layer of longitudinal lines	
Application field	Concrete	Plasterboard, cavity wall, Sub-ceiling
Drawing		

LEGEND

 Nominal outer diameter	 Nominal inner diameter (min)	 Dimensions (mm)
 Packing (pieces/box)	 Coil weight (Kg)	 Bigger Packing for fittings (pieces)
 Packing (m/coil)	 Coils of pliable conduits on pallet (m)	 Double wall technology. Pipes with double walls make cable introduction faster and easier.
 Halogen free product	 Low smoke emissions	 Environmentally friendly product.
 The product and its production process are inspected and approved by VDE German institute	 The product does not contain hazardous substances acc. to 2011/65/EE RoHS Directive. Certification body VDE	 Compliance with REACH Regulation EC/1907/2006 about chemicals
 Certification body of Quality Management System EN ISO 9001	 Certification body of Environmental Management System EN ISO 14001	 Certification body of Occupational Health and Safety Management System ISO 45001

**MANUFACTURING
EXCELLENCE AWARDS
2021** Τα βραβεία της Ελληνικής Βιομηχανίας

WINNER

KOUVIDIS was founded in 1979 when Emmanuel Kouvidis, an electrician-installer, decided to quit his job and set up a business of his own in order to produce high quality conduits which would not break and which would ensure the safety of electricians-installers.

His vision came true and KOUVIDIS evolved to one of the largest Greek plastic pipe manufacturers characterized by continuous development and innovation.

Keeping its people at the heart of all its actions and aiming to the sustainable development and the cycling economy, KOUVIDIS will continue to provide value added products and services and to constantly improve the installer's work.



ISO 9001



ISO 14001



ISO 45001



ID 201572



Learn more about our
40+ years journey

www.kouvidis.gr

K KOUVIDIS

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