

The image shows a construction site with several blue and red corrugated conduits laid out on wooden formwork. The conduits are arranged in parallel lines, and some are being installed into a concrete slab. The background shows a rough, grey concrete surface.

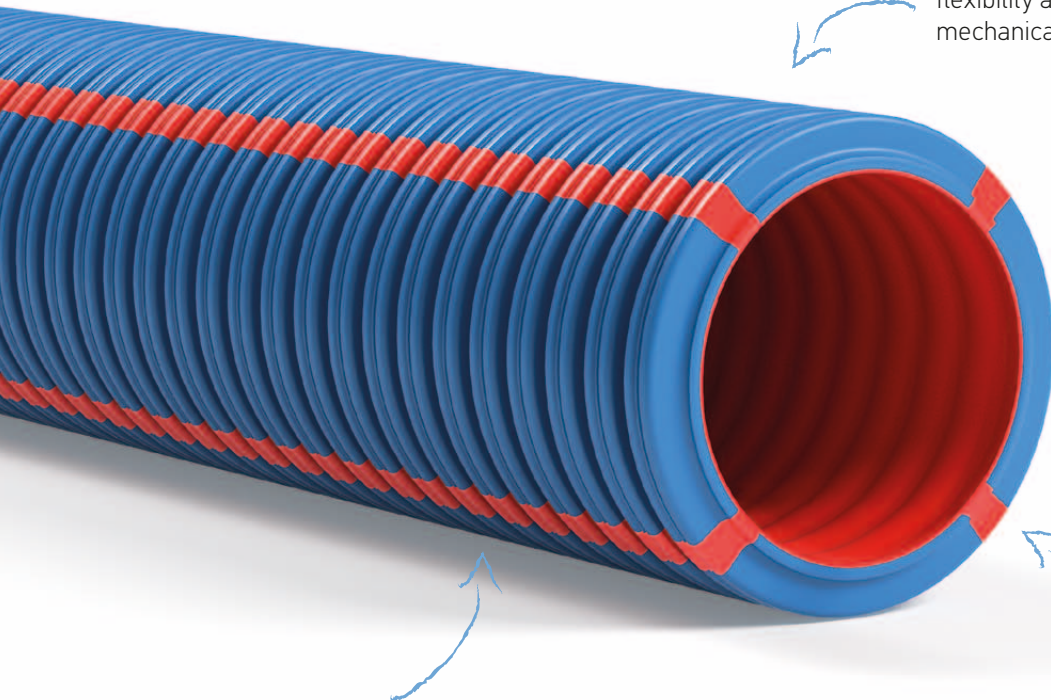
# DUROFLEX<sup>®</sup>

## PLUS 750Nt

3 layers conduit

**NEW ERA FOR  
CONCEALED TYPE  
INSTALLATIONS**

 **KOUVIDIS<sup>®</sup>**



## Layer 1

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

## Layer 3

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

## Layer 2

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

## **M** DUROFLEX<sup>®</sup> PLUS 750Nt

new generation of  
**three layer** conduits for  
concealed type installations  
in concrete

at a glance ...

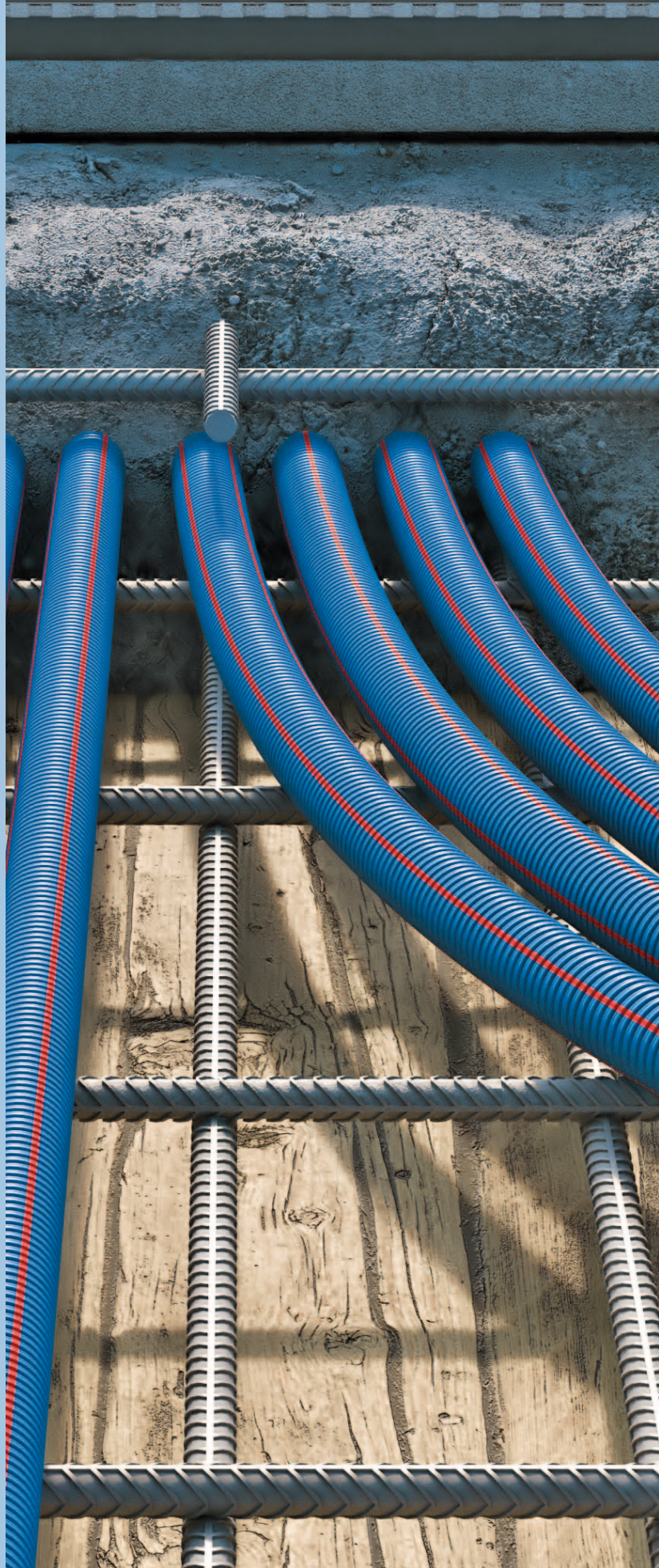
Applying its manufacturing know-how on structured wall conduits in smaller diameters, KOUVIDIS becomes the first company in Europe daring such an investment, achieving the maximum easiness for cable routing.

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 .

50 %

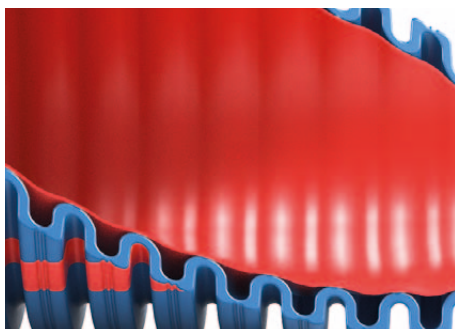
lower  
friction

(IEC/TR 62470)



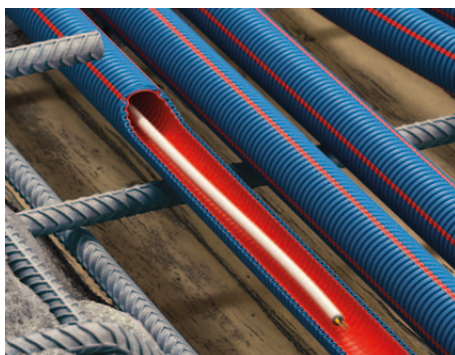
# DUROFLEX® PLUS

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

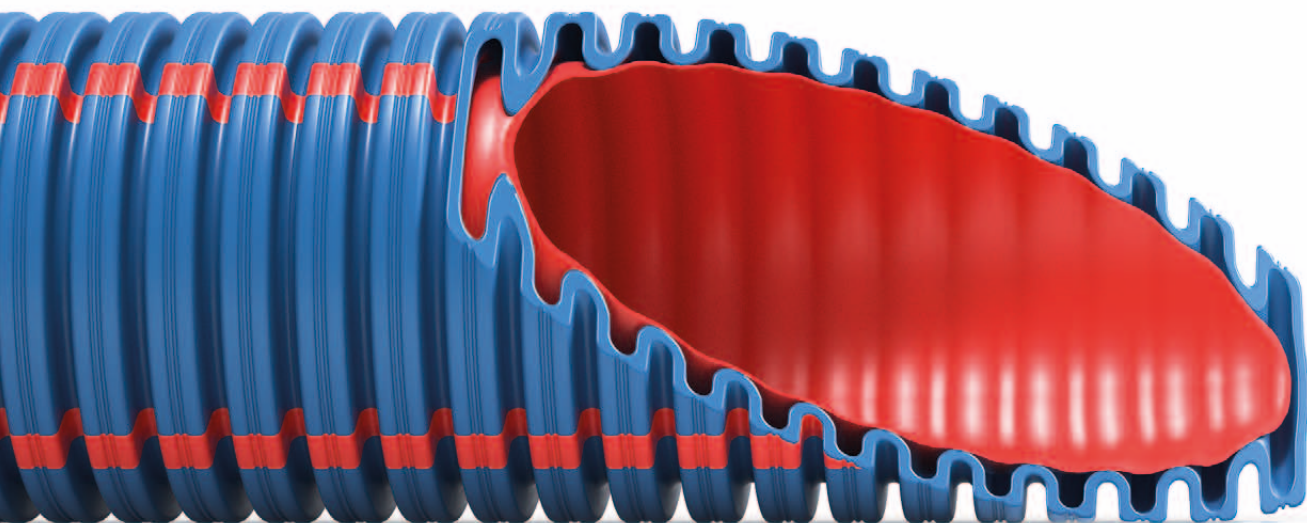
A special slip material is added in the internal layer of DUROFLEX® PLUS conduits, reducing by 50% the friction (test conducted according to IEC/TR 62470) and thus the applied force that is required for cable routing.



## Safer installation

DUROFLEX® PLUS conduits adapt the requirements of the 364/2016/EU Regulation for the fire protection in buildings. They are made from 100% halogen free raw materials in order to protect people and their property in case of a fire.

NEW  
3layers 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



Color marking between electrical installations and communication systems. RED = Electrical installations  
GREEN = Communication systems



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



Not attractive to rodents. The internal layer incorporates animal repellent



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.



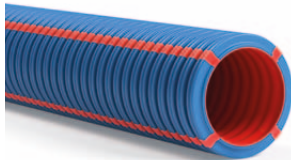
Saving cost due to the faster installation

Medium Type (750Nt)

RAL 3020  
red / inner layer

RAL 5019  
blue / outer layer

RAL 3020  
Indelible red / Longitudinal lines



Application Standards: EN 61386.22

Reference Standards: EN 50642, NF P 98-332

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

DUROFLEX® PLUS conduits are also available with **green** color marking upon request with part numbers: 26411XX0

Where XX the diameter of the conduit Ø20, Ø25, Ø32

**M** DUROFLEX® PLUS IAR

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

**+ 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.



Patent Protected: EP2698792

Patent Protected: 1009144 (Hellenic Industrial Property Organization)

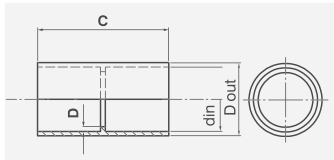


Type	Part number					
Ø20	26410200	20	13.2	50	3.78	3200
Ø25	26410250	25	18.1	25	2.53	1800
Ø32	26410320	32	23.7	25	3.49	1400



Fittings

RAL 3020  
Red



Application Standards: EN 61386.01

Reference Standards: EN 50642








Coupler for DUROFLEX® PLUS IAR conduits

Properties

Raw material

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

Type	Part number					
Ø20	4213020	23.5	20.0	51.5	30	1890
Ø25	4213025	28.5	25.0	51.5	30	1440
Ø32	4213032	37.0	32.0	65.0	20	560

General properties for Fittings





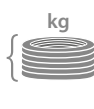






Temperature range	-25°C to +60°C
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagating	Non flame propagating
Halogen free	No toxic or corrosive gases in case of fire



## 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.

**LEGEND**

 <p>Nominal outer diameter</p>	 <p>Packing (pieces/box)</p>	 <p>Dimensions (mm)</p>
 <p>Nominal inner diameter (min)</p>	 <p>Coil weight (Kg)</p>	 <p>Bigger Packing for fittings (pieces)</p>
 <p>Packing (m/coil)</p>	 <p>Coils of pliable conduits on pallet (m)</p>	 <p>Medium Type (According to EN 61386-01, compression strength)</p>
 <p>Double wall technology. Pipes with double walls make cable introduction faster and easier.</p> <p><small>KOUVIDIS DW HIGH SPEED TECHNOLOGY</small></p>	 <p>Halogen free product</p> <p><small>KOUVIDIS HALOGEN FREE</small></p>	



KOUVIDIS was founded 40 years ago 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 manufactures 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.

Learn more about  
our 40 years journey

[www.kouvidis.gr](http://www.kouvidis.gr)



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