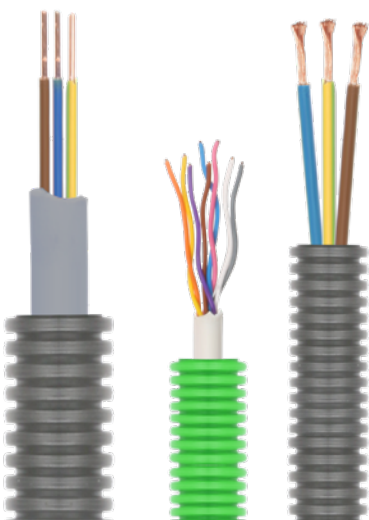




LET ENERGY FLOW

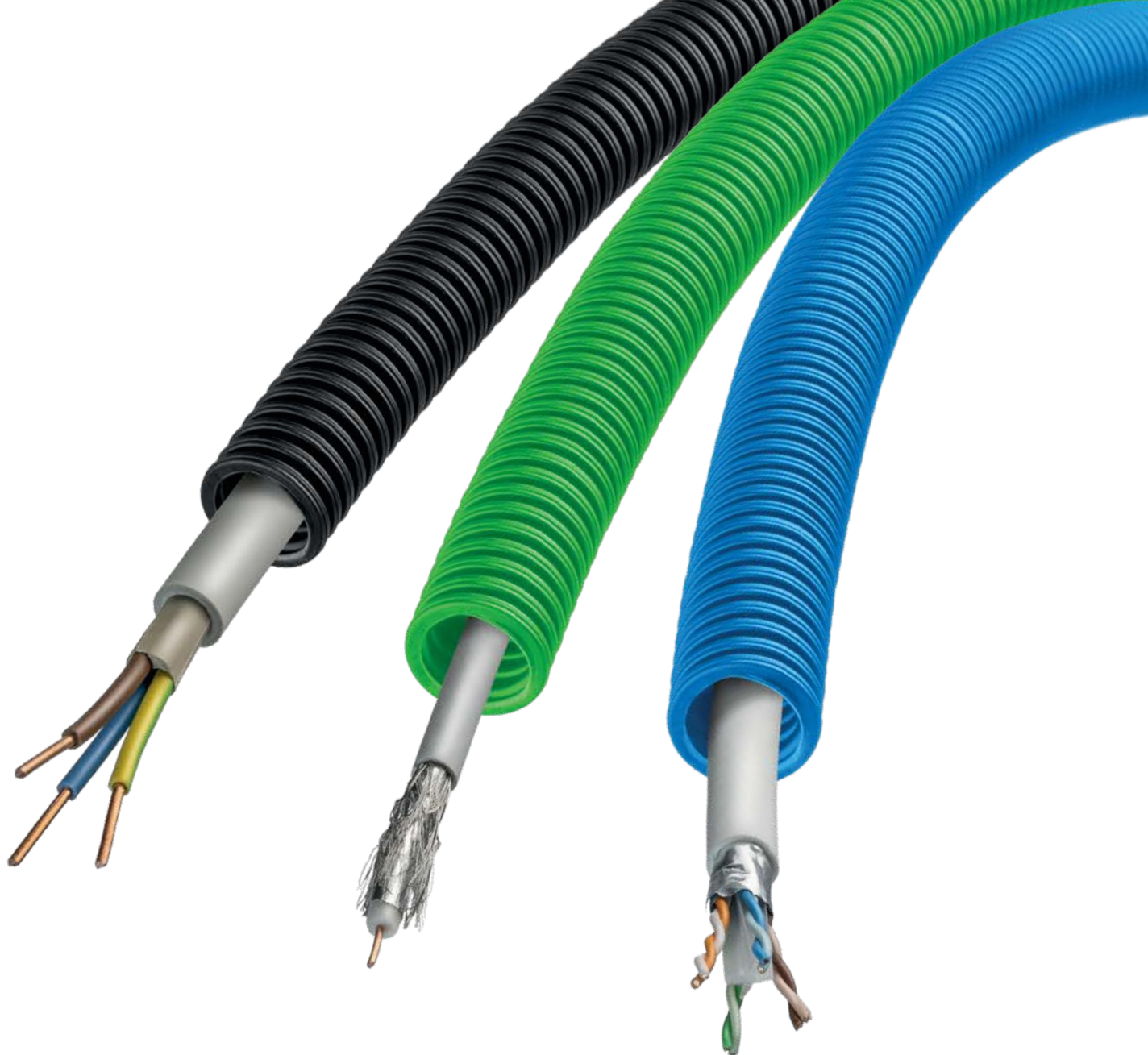
MON PLAST REVOLUTIONIZES  
THE INSTALLATION OF ELECTRICAL SYSTEMS





Monflex™ precabled conduit  
facilitates installation,  
revolutionizing the traditional method  
of wiring electrical systems.





# EXPERIENCE, CONSISTENCY, SAFETY

**MON PLAST** has been operating for more than 30 years in the field of moulded plastics and the production of plastic and plywood reels.

In 2008 the company broke into the market of polypropylene conduit for electrical systems, introducing **MONFLEX™**, an innovative product featuring a high level of technology.

Beyond the home Italian market, **MON PLAST** also operates Europe-wide, through an extensive sales network and selected dealers.

Attention to detail, a strong work ethic, steady growth underpinned by investments in technology and human resources... these are the qualities that ensure our customers can rely on continual improvement of the products and services we offer.



# MONFLEX™

## PRECABLED CORRUGATED POLYPROPYLENE CONDUIT

This is a range of corrugated tubular polypropylene conduits, preassembled with cables and representing a step forward from traditional PVC conduit.

Electrical cables  
of guaranteed quality

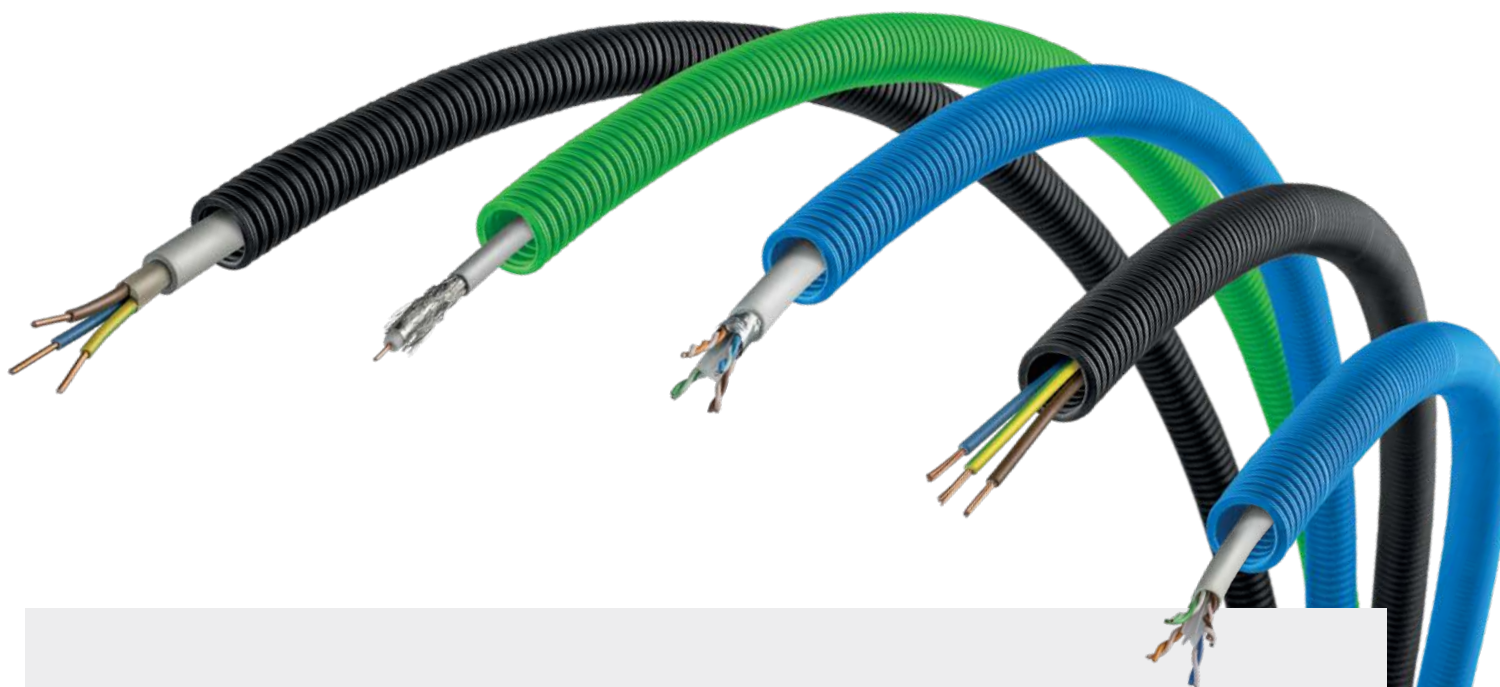


The pre-wired cables are sourced from selected, market-leading suppliers.

Thanks to a strong synergy with our partners, we can select the best products, customize them, and benefit from fast, dependable deliveries.

Tough and durable  
corrugated conduit

MONFLEX™ is a corrugated tubular conduit supplied with cables pre-inserted, ready to install. Moulded entirely from low smoke zero halogen (LSZH) polypropylene, it is self-recovering, self-extinguishing and flame retardant. Waterproof, and resistant to impact and crushing, the properties of this new PP product are superior to those of traditional PVC.



# THE IDEAL SOLUTION FOR YOUR NEW SYSTEMS

Tough, safe, durable and quality certified

## Material

Self-extinguishing and  
flame-retardant polypropylene

## Compressive strength

Medium (750 N - 1,000 N)  
Heavy (1,250 N)

## Halogen content

Rated LSZH  
(Low Smoke Zero Halogen)

## Degree of protection

IP44

## Impact resistance

Heavy, 6J  
(2 kg dropped from 300 mm)

## Reference standards

EN61386-1  
EN61386-22 + A11  
EN60754-1 EN60754-2

## Operating temperature

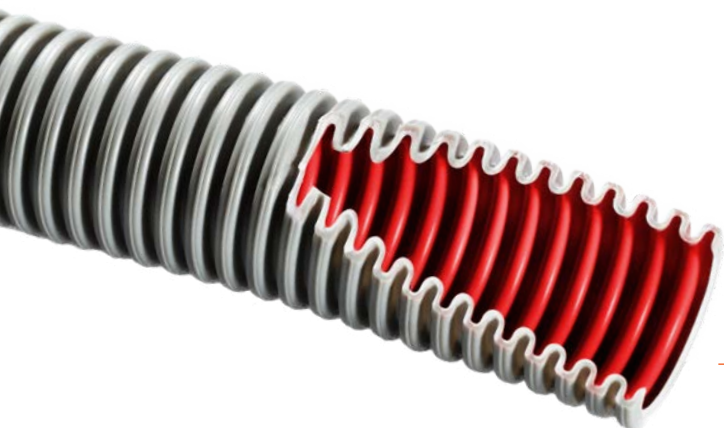
-25 °C to +105 °C

## Insulation resistance

>100 MΩ at 500 V voltage



# LUBIFLEX AND MON FLEX RUNNER SOLUTIONS



## MONFLEX RUNNER

Monflex™ Premium corrugated conduit, comprising two layers, an outer wall of PP and a moulded inner wall of **slippery compound**. Compared to conduit of traditional construction, this technology greatly facilitates the insertion of cables, which means speedier preparation and installation.

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## MONFLEX LUBIFLEX

Monflex™ corrugated polypropylene conduit, totally halogen-free and highly durable. Unlike the Runner conduit, Lubiflex has a single wall treated internally with a **slippery coating** that facilitates the insertion of cables.

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## MONFLEX SOLAR

Monflex™ corrugated polypropylene conduit with **UV-resistant properties**. Suitable for outdoor environments particularly exposed to sunlight.

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# WHY CHOOSE MONFLEX™



## NO WIRE-PULLING INVOLVED

With no need to run cables manually through conduits, **installation costs are more than 30% lower.**



## SAVE ON LABOUR

One person can install the entire electrical system single handed.



## SAVE ON MATERIALS

With no requirement for items such as **lubricants and fish tapes**, inventory and transport costs are reduced.



## AVOID HITCHES AND ACCIDENTS

No more **breakages or obstructions** of the conduit, causing possible difficulties with the deployment of cables.



## COMPATIBLE WITH ALL KINDS OF MATERIAL

**Ideal for any type of electrical installation:** traditional wall chasing, embedded in cement or concrete, drywall, movable walls, prefabricated or complex building systems.



## SAFETY AND CARE FOR THE ENVIRONMENT

Flame-retardant and self-extinguishing. No halogen gas harmful to health. **3 times stronger than PVC**

# - 28%

is the average cost advantage  
offered by the MONFLEX™ system

Example of cost advantage  
calculated on an apartment  
measuring **80 m<sup>2</sup>**

**7 rooms**

area m<sup>2</sup> = 6x5 - 4x2.5 - 4x4.5  
5x1.5 - 3x2 - 3.5x2

Materials needed  
for installation of system:

#### CONDUIT

100 m x Ø 20 PVC conduit  
140 m x Ø 25 PVC conduit  
120 m x Ø 32 PVC conduit  
20 m x Ø 25 PVC conduit  
55 m x Ø 25 PVC conduit  
30 m x Ø 32 PVC conduit

#### WIRING

1920 m x 1.5 FS17 cable  
820 m x 2.5 FS17 cable  
120 m x 4 FS17 cable  
80 m x 6 FS17 cable  
100 m x 2-pair + E Tel  
100 m x Sat coaxial

Overall cost for purchase of materials  
(PP conduit + wiring)

+5%



Traditional

MONFLEX™

Installation time  
placing conduit and running cables

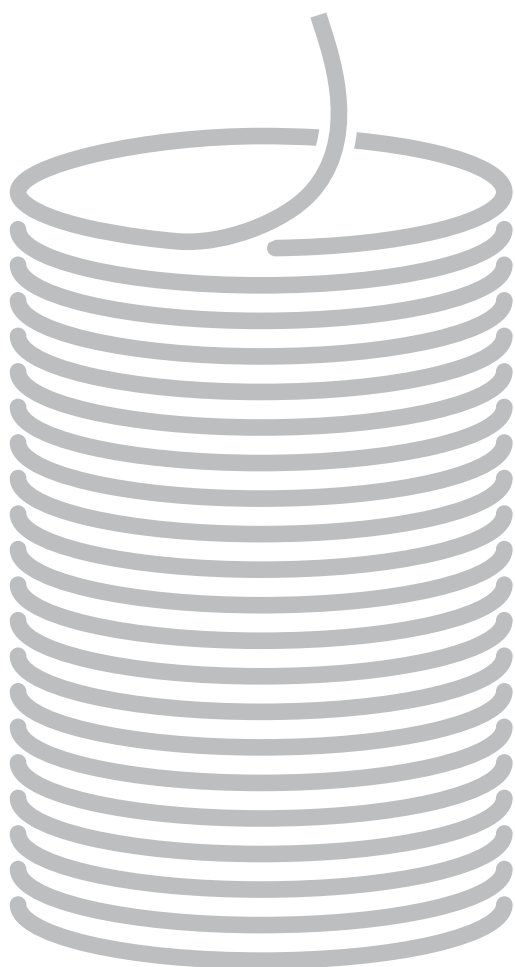
-13 h



Traditional - 28 h

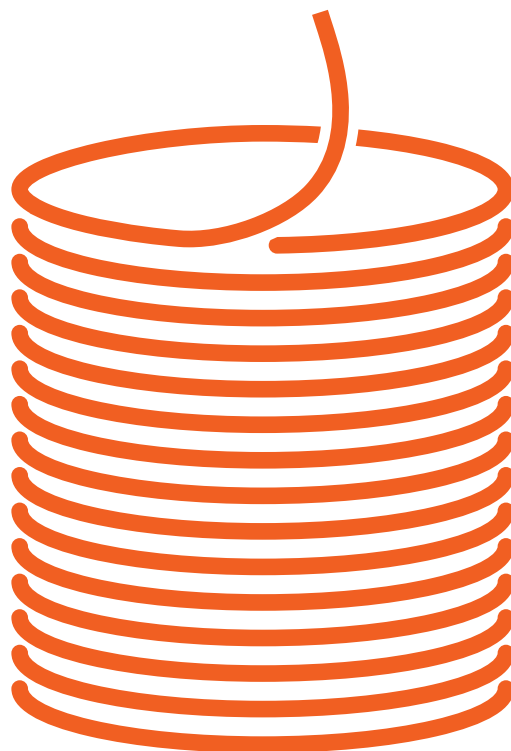
MONFLEX™ - 15 h





Total: traditional system  
€ 1,064

  
monFLEX


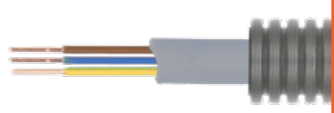






















Total: MONFLEX™ system  
€ 762

\*verified by installers in the Vicenza area

+ COMPETITIVENESS  
+ PROFIT MARGIN  
+ RESOURCES FOR  
OTHER JOBS

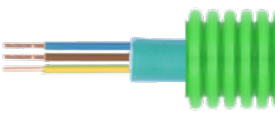





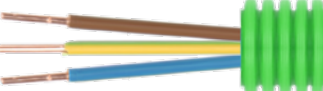


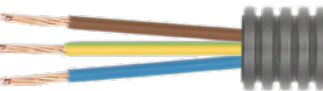


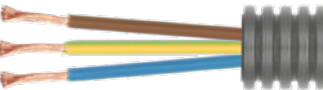





# A WIDE RANGE OF PRODUCTS FOR ALL NEEDS

 <b>POWER</b>		CABLE SECTION	AMBIENT TEMPERATURE	ICTA SIZES	CERTIFICATION	CONDUIT COLOUR	CABLE COLOUR
	XVB	3X1.5 3X2.5 5X1.5 5X2.5	-5°C +90°C	20 25	3342 3422		
	NYM-J	3X1.5 3X2.5 5X1.5 5X2.5	-10°C +70°C	20 25	3342 3422		
	H07V-U	1.5 2.5 4 6	-10°C +70°C	16 20 25	3342 3422 3432		
	H07V-R	1.5 2.5 4 6	-10°C +70°C	16 20 25	3342 3422		
	FS17	1.5 2.5 4 6	-15°C + 90°C	16 20 25	3342 3422		
	H05VV-F	3X1.5 3X2.5 5X1.5 5X2.5	-15°C + 90°C	20 25	3342 3422 3432		

 <b>SPECIAL</b>		CONDUCTOR TYPE	ICTA SIZES	CERTIFICATION	CONDUIT COLOUR	CABLE COLOUR
	DATA	CUSTOM	16 20 25	3342 3422 3432 2232		CUSTOM
	TV COAXIAL	CUSTOM	16 20 25	3342 3422 3432 2232		CUSTOM
	TELEPHONE	CUSTOM	16 20 25	3342 3422 3432 2232		CUSTOM
	ALARM	CUSTOM	16 20 25	3342 3422 3432 2232		CUSTOM
	HOME AUTOMATION	CUSTOM	16 20 25	3342 3422 3432 2232		CUSTOM













LSZH

	CABLE SECTION	AMBIENT TEMPERATURE	ICTA SIZES	CERTIFICATION	CONDUIT COLOUR	CABLE COLOUR
	XGB	3X1.5 3X2.5 5X1.5 5X2.5	-5°C +90°C	20 25	3342 3422	 
	NHXMH-J	3X1.5 3X2.5 5X1.5 5X2.5	-5°C +90°C	20 25	3342 3422	 
	H07Z1-U	1.5 2.5 4 6	-5°C +90°C	16 20 25	3342 3422 3432	 
	H07Z1-R	1.5 2.5 4 6	-5°C +90°C	16 20 25	3342 3422	 
	H07Z1-K	1.5 2.5 4 6	-5°C +90°C	16 20 25	3342 3422	 
	FE0	3X1.5 3X2.5 5X1.5 5X2.5	-5°C +90°C	20 25	3342 3422 3432	 



## UNCABLED CONDUIT

	COMPRESSIVE STRENGTH	AMBIENT TEMPERATURE	ICTA SIZES	MATERIAL	CONDUIT COLOUR
	ICTA 3342	750 NW	-25°C +90°C	16 20 25 32	
	ICTA 3422	750 NW	-5°C +90°C	16 20 25 32	
	ICTA 3432	1000 NW	-15°C +90°C	20 25 32	
	ICTA 2232	350 NW	-15°C +90°C	16 20 25 32	
	ICTA 4343	1250 NW	-25°C + 105°C	20 25 32	

SELF-EXTINGUISHING  
FLAME-RETARDANT  
POLYPROPYLENE



# PACKAGING

## ICTA 16

Rolls of 25 up to 1000 m

*Also available wound on  
plywood reels*

## ICTA 20

Rolls of 25 up to 800 m

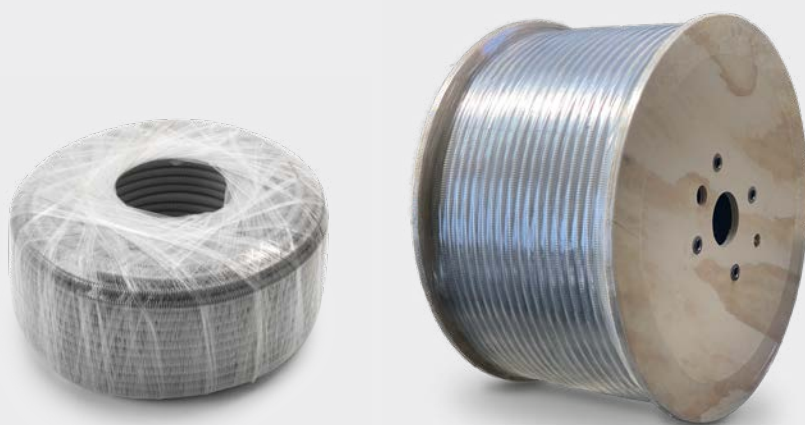
*Also available wound on  
plywood reels*

## ICTA 25

Rolls of 25 up to 500 m

## ICTA 32

Rolls of 25 up to 300 m



## CERTIFICATIONS

**MONFLEX™ is quality  
approved and certified**

In 2008, MON PLAST secured ISO 9001 certification of its Quality System for the production and marketing of thermoplastic and plywood products, and cardboard reels, then in 2011, for the production and marketing of precabled corrugated conduit moulded from self-extinguishing polypropylene.



### Defining Quality

Quality is a system aimed at achieving customer satisfaction.

With this end in view, MON PLAST has adopted a Customer Oriented Process to make certain that the needs of the customer can be clearly identified and duly met.

To ensure the Customer Oriented Process runs smoothly, MON PLAST has developed a Quality Management System (QMS), through which it collects and records data and information on incoming materials, details of the necessary sequences and interactions between processes, and final information confirming the desired results. Collecting data, it becomes possible to evaluate the critical points of each process. The effort to bring about continuous improvement involves everyone who works for the company.



# CARE FOR THE ENVIRONMENT AND ITS INHABITANTS



## COMPARED TO PVC, A CONDUIT MADE OF PP GUARANTEES BETTER SAFETY IN THE EVENT OF FIRE:

- Low emission of smoke and zero emission of halogen gases
- Ultra low emission of carbon monoxide; contains no heavy metals and chlorides
- This makes the product suitable not only for residential systems, but also for hospitals, schools, hotels, shopping centres and offices



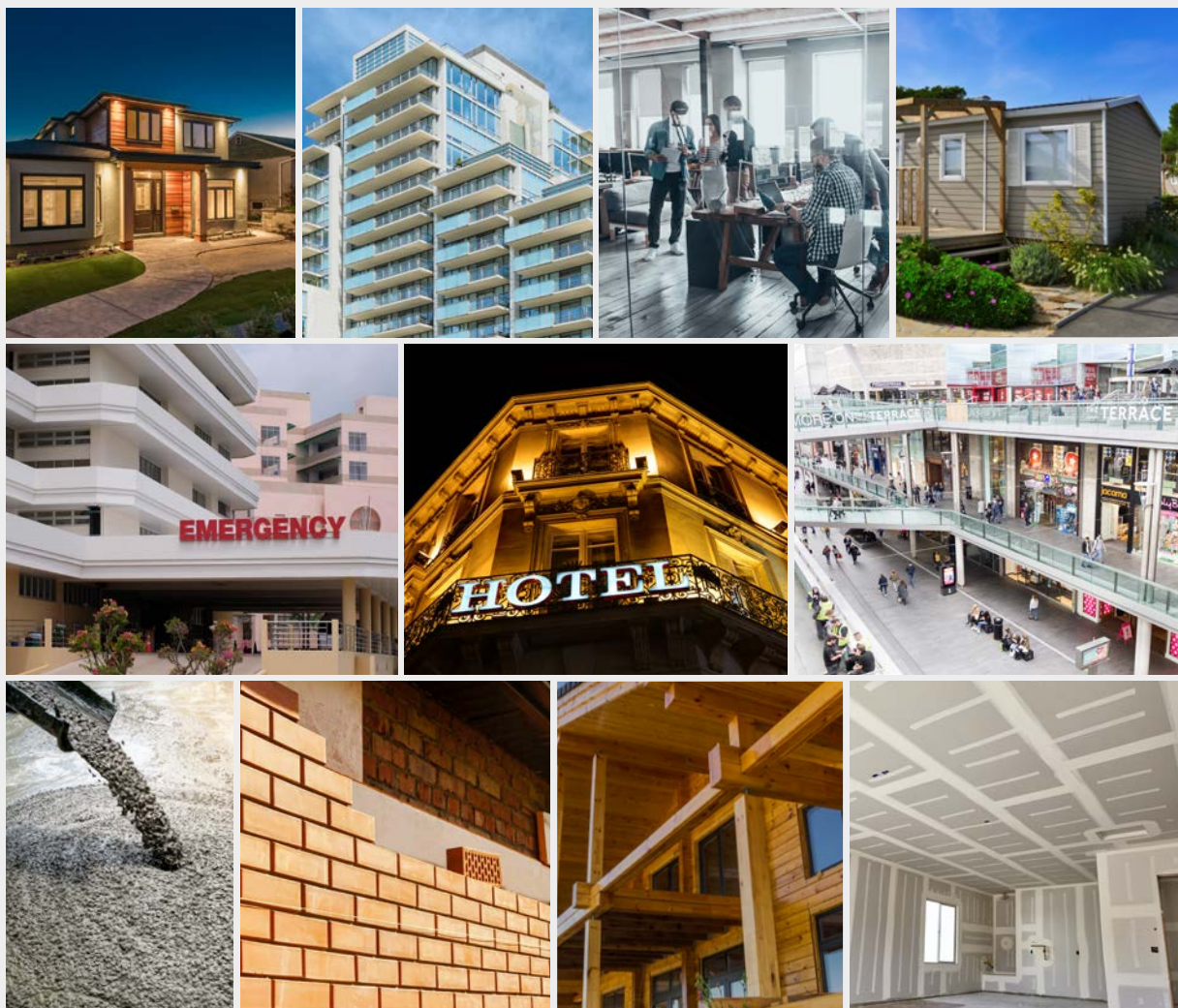
## ECO-FRIENDLY MANUFACTURING SYSTEM:

- All the energy we use is procured from renewable sources (the company has its own photovoltaic system)
- Our modern machines are all ultra energy efficient
- Where possible, primary and secondary packaging materials of natural origin are utilized





# APPLICATIONS



## Ideal for any setting

Thanks to the safety guaranteed by compliance with regulations and the use of leading-edge materials, MONFLEX™ precabled conduits are ideally suited for all residential and certain industrial applications.

- Standard power utilities
- TV
- Data transmission and telephony
- Home automation
- Alarms
- Automation
- Renewable energy systems
- Housing, Detached homes
- Residential / Apartment buildings
- Public buildings, shopping centres and stores, hospitals, offices
- Industrial buildings
- offices and small workshops
- Compatible with all structures and all materials (movable walls, masonry, timber, drywall, concrete...)



## SAFE EVACUATION

MONFLEX™ is ideal for use in public places visited by high numbers of people. In addition to being made of self-extinguishing and flame-retardant material, the conduit will not give off any halogen gas hazardous to health in the event of fire, neither will it produce smoke liable to reduce visibility during an evacuation.





[WWW.MONPLAST.IT](http://WWW.MONPLAST.IT)

## NOTES

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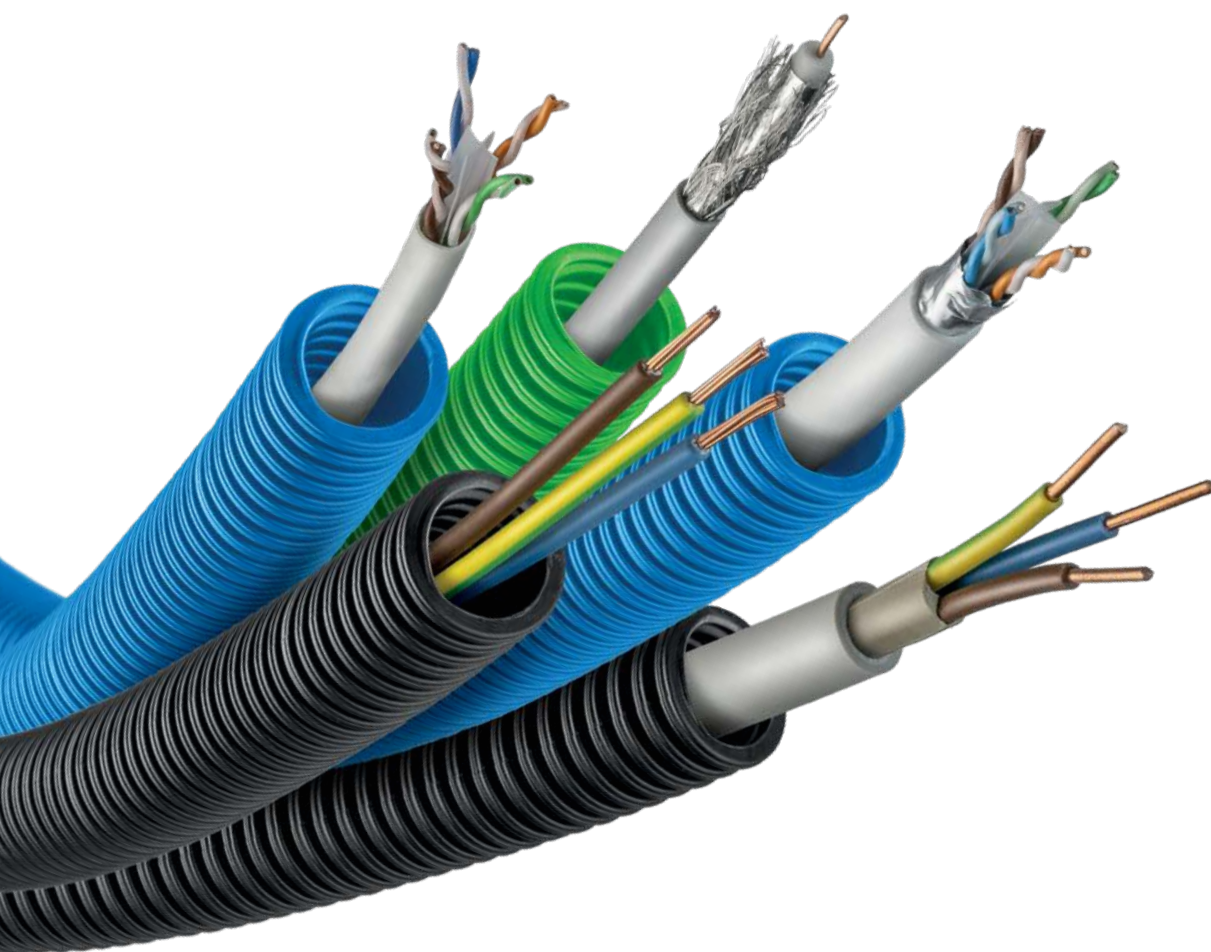
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