



2023



extro

Key facts and figures

- **EXTRO** is a registered brand, owned by Extro Plastica SRL
- **EXTRO Flex** - corrugated tube range according EN 61386-1 and EN 61386-22
- **EXTRO Sub** – Double wall corrugated tubes according EN 61386-1 and EN 61386-24 will be available starting May 2023 and will cover not only the standard dimensions D40 and D50, but some smaller diameters as well (D32, D25,..)!

EXTRO Flex products are available at all major electrical equipment distributors in Romania: Promelek XXI, Resonance, TSB, Chorus, Arc Electronic (Sonepar), and so on..

More than 100.000 m of tubes were used this year for photovoltaic field applications

EXTRO Plastica is ISO 9001 and ISO 14001 certified



Product groups



<320 N

EXTRO FLEX® Light

Low compression: Extremely flexible tubes with a mechanical resistance that is suitable for installations in vertical walls only. Best suitable for outdoor networks with exposure to direct sunlight.



320 N

EXTRO FLEX®

Standard product range with outer diameters 16, 20, 25 and 32 mm. Standard compression, but excellent low temperature impact strength. Best suitable for indoor and outdoor applications, inside and on the walls



750 N

EXTRO FLEX® dur

Professional: The high resistance to static and dynamic loads and impacts in any weather conditions recommend this products for industrial usage or in constructions, and other complex applications, where installation is exposed to traffic and the work productivity very important



1250 N

EXTRO FLEX® Xdur

Heavy duty: Extremely resistant but less flexible, the Xdur range is optimised for outdoor applications under extreme conditions and in any other application when the cost of a retrofit in case of damage would be very high

EXTRO Flex - Product key properties

Halogen free

When halogenated plastics burn, they can release hazardous gases into the atmosphere. When combined with restricted environments the concentration of these lethal gases can build very quickly, making escape in the case of a fire even more hazardous.

UV resistant

The UV degradation of the materials exposed to sunlight is affecting not only the product appearance, but the material strength and its impact resistance. Our products are best suitable for outdoor usage and provide a long lasting protection up to 50 years.

Low temperature flexibility

PE based materials remain flexible even at very low temperatures, enabling a problem free assembly in sub zero conditions and conserving the excellent impact strength resistance.

Low smoke

Low smoke tubes considerably reduce the amount of toxic gas emitted during combustion. When burned, a low-smoke tube emits a less optically dense smoke that releases at a lower rate.

Extended product range

Product characteristic	Standard	Alternatives
Base raw material	HDPE	PP, PA
Flammability	Non Flame Propagating Acc. EN61386-1	V2, V1 and V0 Acc. UL94
Pulling wire	Optional	Yes
Colour	Black	grey

Production technology



High performance extrusion equipment:

- Automated material feeding and mixing
- UC58 corrugator with additional water cooling
- Automated packing and labeling
- Capacity up to 13 mil m/year

Automated packing



Materials and Quality Assurance key facts

Raw material is a compound based on HDPE

Raw material was Reach tested!



Material is thoroughly quality controlled:

- each big bag has its own tracking number
- each tracking number can be linked to a set of material tests (i.e. MFI)

Each batch of tubes can be linked to the raw material used for fabrication



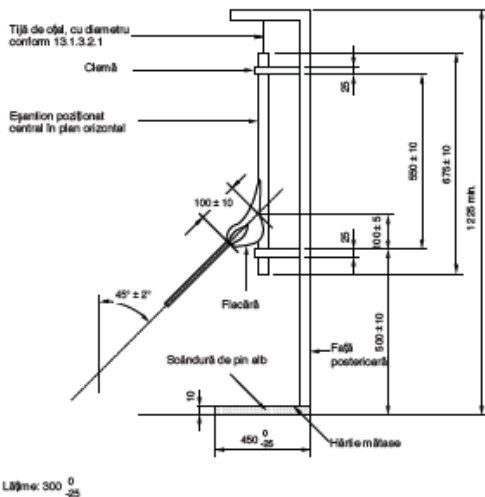
Main tube properties are regularly monitored by QA

Compression test on Zwick / Roell

EXTRO Flex – fire resistance

All corrugated protection tubes of the EXTRO Flex range are tested and conform to the standard SR EN 61386-1. The products are evaluated as: not fire propagating.

SR EN 61386-1:2009



Dimensiuni în milimetri

NOTĂ - Desenul de mai sus nu are ca scop impunerea concepției, cu excepția dimensiunilor indicate.

Figura 7 –Montaj pentru încercare de rezistență la propagarea fiicării



Flame test cabinet according standard



3 test specimens

Packaging

Coils of 50 m:

Stripped in plastic film

Opening to be performed in the middle of the coil for easy handling

No necessity to protect the coil from being exposed to sunlight

Storage outside is possible!



Pallets of 115x115x2250:

D16: 110 coils

D20: 75 coils

D25: 52 coils

D32: 24 coils



Made by professionals...

... for professionals!