TECHNICAL SHEET FOR CABLE PROTECTION

CORRUGATED DOUBLE LAYER PIPES

- TECHNICAL SPECIFICATION FOR ENGINEERS -

Supply and laying of polyethylene double layer corrugated pipes, produced for continuous co-extrusion of both layers extruded by UNI EN ISO9001:2000 and system of Environmental management conforming to the

norm UNI EN ISO 14001:2004.

Pipes are of … colour externally and black colour internally, supplied in 50 meter coils, comprehensive with jointing coupler and a galvanized wire to pull the cables.

They must correspond to CEI EN 61386-1-2-4 standard and have IMQ mark and CE marking with product classification series N and have stiffness resistance higher than 450 N.

- GENERAL CHARACTERISTICS -

CONSTRUCTION: Double layer pipe, external corrugated of … colour and smooth internally of black colour.

APPLICATION: Electrical cable protection (low and medium tension) and telephone cables.

STIFFNESS RESISTANCE: CEI EN 61386-1-2-4 with deformation level of internal diameter equal to 5% **IMQ mark** –CE marking.

STRUCTURE: stable to UV rays with one year guarantee for date of production shown on the pipe.

BENDING RADIUS: 15 times the external diameter.

LIMITS OF APPLICATION: -50 °C / +60 °C

LENGTHS: in 50 meter coils (ø 200mm coils of 25 meters)

ACCESSORIES: Jointing coupler + pulling wire

INSTALLATION: Underground in trench.

- TEST TYPE AND CONFORMITY -

1. TEST TYPE

- **Melt flow rate:** Ref. Standard ISO 1133: Condition 1T (test parameters: 190°C / 5 Kg /10 min.) on raw material on both layers.

- **Density:** Ref. Standard ISO 1183: (Test temperature: 23°C) on raw material on both layers.

2. CONFORMITY TEST

- **Visual control:** Ref. Standard UNI ISO 4582 par. 3-4
- **Marking:** At 3 meters interval on pipe is typed longitudinal marking using correct and readable ink
- **Dimensions:** average external diameter (de), minimum internal diameter (dim)
- **Stiffness test:** Ref. Standard CEI EN 61386-1-2-4
- **Impact test:** Ref. Standard CEI EN 61386-1-2-4

External and Internal layer material : PE

- DIMENSIONAL CHARACTERISTICS

ARTICLE CODE	CR10040R4	CR10050R4	CR10063R4	CR10075R4	CR10090R4	CR10110R4	CR10125R4	CR10140R4	CR10160R4	CR10200R4
Nominal diameter (mm)	40	50	63	75	90	110	125	140	160	200
Minimum external diameter (mm)	40	50	63	75	90	110	125	140	160	200
Maximum external diameter (mm)	40.8	51	64.2	76.4	91.7	112	127.3	142.6	162.9	203.6
Minimum internal diameter (mm)	30	37	47	56	67	82	94	106	120	150
Average measured internal diameter (mm)	31.3	40	51.6	62	77	95	107	121	137	172
N° corrugations per linear meter	180	180	140	120	120	100	100	90	80	63
A (mm)	3.53	3.46	4.63	5.46	5.19	5.92	6.32	7.67	11.90	12.10
B (mm)	1.96	2.18	2.38	2.99	2.70	3.10	3.31	4.09	3.18	3.50
C (mm)	3.34	3.40	4.80	5.64	5.62	6.53	8.15	8.83	10	11