

PRESENTATION

Telereport cables armoured or non armoured are for Data transmission between power or fluid counters and the property's interface box They are suitable for installation inside buildings, on walls or in duct.

STANDARDS

Our cables are produced according to the NFC33-400 French standard.

CABLE MANUFACTURE

1- Conductors:

Each conductor consists of a solid wire of annealed copper, having a diameter 0,6 mm.

2- Insulation:

Each conductor is insulated with a layer of PVC material category TI51. The radial thickness of the insulation is such that the electrical requirements are met.

3- Stranding

- Quadding

Four appropriately coloured insulated conductors are assembled together to form a quad.

4- Wrapping:

A polyester wrapping tape is applied over the core.

5- Screen:

Over the wrapped core cable is applied an aluminium tape, coated on one side with polyester. It has a total minimum thickness of about 30 microns.

6- Drain and continuity wire:

A solid tinned copper conductor of 0.5 mm diameter is applied under the screen in contact with the aluminium face to ensure its continuity.

7- Rip cord:

A polyester thread is applied under the inner sheath.

8- sheath:

The inner sheath is lead free and other heavy metal free PVC, Ivory colour RAL1013, UV resistant and flame retardant (category C2 according to NFC32070 2.1).

The sheath dimensions shall be as follows:

Nominal sheath thickness (mm)	Nominal diameter of cable (mm)
1,0	5,20

9- Armouring:

Over the inner sheath can be applied helically two black steel tapes of 0,2 mm thickness or one corrugated steel tape applied over a bedding consisting of a polyester tape .

10- Outer sheath:

Only for the armoured cable ,the outer sheath is lead free and other heavy metal free PVC, Black colour and flame retardant (category C2 according to NFC32070 2.1).

The sheath dimensions shall be as follows:

Nominal sheath thickness (mm)	Nominal diameter of cable (mm)
1,2	10,50



11- Marking :

Over the outer sheath an ink marking is applied every meter:

ELECTRICAL CHARACTERISTICS

Resistance at 20° C (max.)	: 133,2 /km
Dielectric strength (1 mn, Vac)	: 1,5 kV
Insulation resistance (min.) at 200 Vcc	: >500 M.km
Mutual capacitance (nom.)	: 80 ÷ 130 nF/km
Characteristic Impedance	: 75 ÷ 115 Ohms

ENVIRONMENTAL CHARACTERISTICS

- Flame resistance Category C2 according to NFC 32070 2.1.
- Temperature of function -10° C ÷ +70° C
- Voltage max. of use 180 V at 50 Hz

PACKAGING

- Packaging in 100m coils or in drums of 500m and 1000m.
- Minimum bending radius is :

	Dynamic (when installing)	Static (after installation)
Unarmoured	70 mm	30 mm
Armoured	220 mm	110 mm