Telescopic probes.

Designation : telescopic probes (telescoping rods).

Applications : to test the continuity and measure the resistance of protective conductors and equipotential bonding on AC power sockets, lights, metal frames, … The telescopic probes are made to suit continuity testers. The telescopic probes connect to continuity testing devices and can test continuity of high up conductors.

Electro-PJP proposes three telescopic probes to test the continuity :

0,83-meter long 1000 V CAT III telescopic probe.
Part number : **PerchTele**

- Duty proven since 2008.
- The best economic for money.
- Low profile.

High rigidity 0,85-meter long 1000 V CAT IV telescopic probe.
Part number : **Xtrio-2B085**

- New 2021 (“Xtrio”) generation.
- Designed for heavy duty.
- Low profile.
- The highest safety. 1000 V CAT IV and compliant with condensation environments.
- High rigidity.
- Very low continuity resistance.

High rigidity 2,16-meter long 1000 V CAT IV telescopic probe.
Part number : **Xtrio-3B216**

Electro-PJP
France
www.electro-pjp.com

Telescopic probes.

Designation : telescopic probes (telescoping rods).

Applications : below this is an example of application, the background is the measuring of the continuity resistance of a high up metal frame. The operator is using a high rigidity 2,16-meter long telescopic probe Electro-PJP Xtrio-3B216, a “Wheel-e” continuity hybrid reel-tester Electro-PJP W2-2oh301235 and an AC power socket adaptor Electro-PJP AdaFMSectFR-T/F4-Green. The metal frame is remote and at height so the operator needs a long probe to measure the continuity resistance.

High rigidity 2,16-meter long 1000 V CAT IV telescopic probe Electro-PJP Xtrio-3B216.

“Wheel-e” continuity hybrid reel-tester Electro-PJP W2-2oh301235.

AC power socket adaptor Electro-PJP AdaFMSectFR-T/F4-Green.

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France
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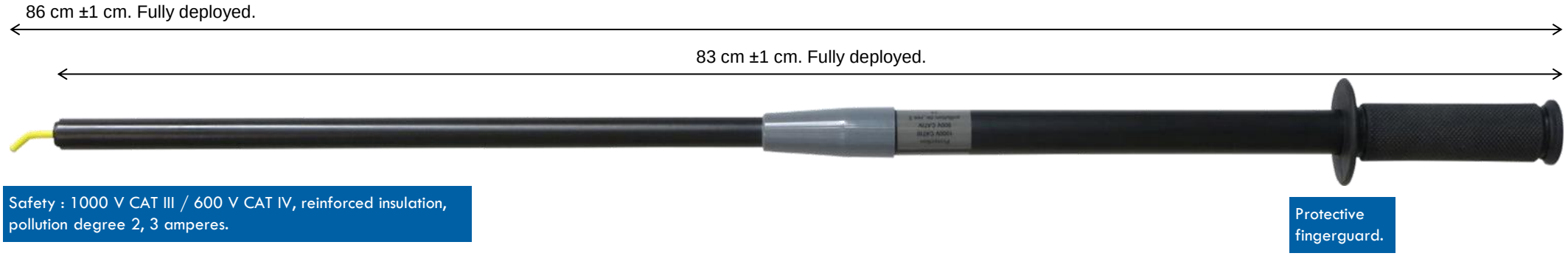
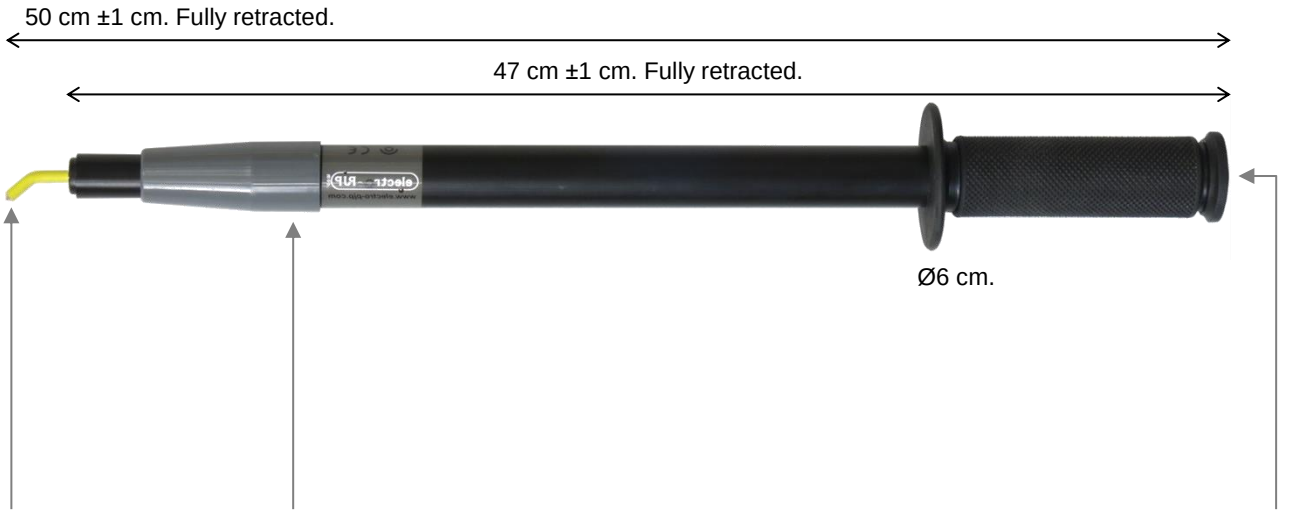
PerchTele

Designation : 0,83-meter long 1000 V CAT III telescopic probe.



Safety : 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 3 amperes.

Description.	0,83-meter long 1000 V CAT III telescopic probe.
Fully retracted / deployed length.	47 cm / 83 cm. (50 cm / 86 cm including test tip.)
Safety according to EN / IEC 61010-031.	1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 3 amperes. With protective fingerguard.
Global rigidity.	Medium rigidity.
Weight.	0,31 kg (including test tip).
Color.	Black.
Continuity resistance.	0,10 Ω. (Telescopic conductors.)
Test tip description.	Screwing insulated test tip. Included. (Spare part number : EPerchIsJ)
Part number.	PerchTele



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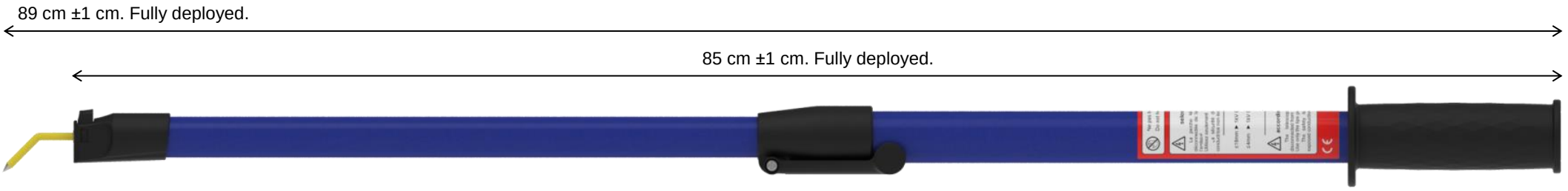
Xtrio-2B085

Designation : high rigidity 0,85-meter long 1000 V CAT IV telescopic probe.

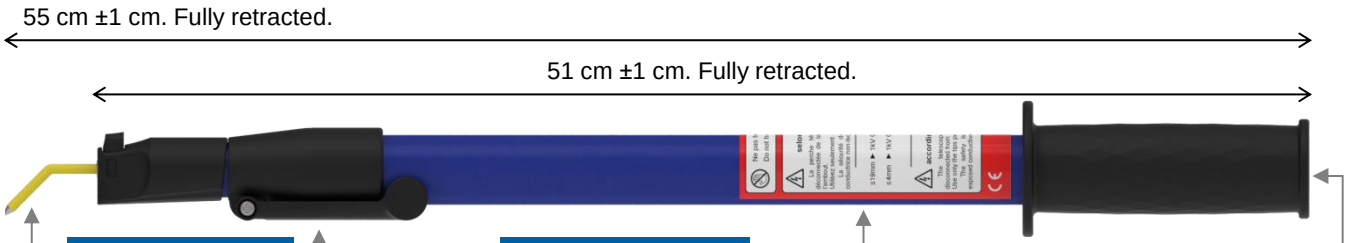


Safety : 1000 V CAT III / 1000 V CAT IV, reinforced insulation, pollution degree 3, 3 amperes.

Non-rotating tubes. The very low continuity resistance comes from the inner coiled wire. To avoid multiple rotations of the tubes that would cut the inner coiled wire, the tubes are non-rotating.

Protective fingerguard.

Description.	High rigidity 0,85-meter long 1000 V CAT IV telescopic probe.
Fully retracted / deployed length.	51 cm / 85 cm. (55 cm / 89 cm including test tip.)
Safety according to EN / IEC 61010-031.	1000 V CAT III / 1000 V CAT IV, reinforced insulation, pollution degree 3, 3 amperes. With protective fingerguard.
Global rigidity.	High rigidity.
Weight.	0,35 kg (including test tip).
Color.	Blue.
Continuity resistance.	0,04 Ω. (Coiled conductor.)
Test tip description.	Locking insulated test tip. Included. (Spare part number : ATP-Pointe)
Part number.	Xtrio-2B085



Non-rotating tip to avoid the tip slipping on the target.

High rigidity low weight telescopic tubes.

Ø6 cm.

Recessed terminal to protect against falls and other shocks.

Locking insulated test tip. When damaged the test tip can be removed and replaced with a new one.

Fast locking system of the telescopic tubes.

Safety markings. Electro-PJP's marking. CE marking.

The 4 mm banana female terminal complies with the 4 mm banana connectors of most of the worldwide manufacturers.

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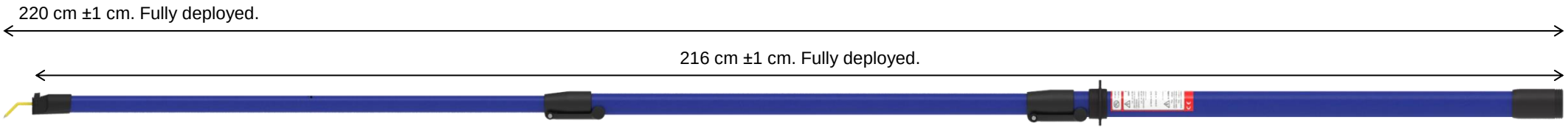
Xtrio-3B216

Designation : high rigidity 2,16-meter long 1000 V CAT IV telescopic probe.



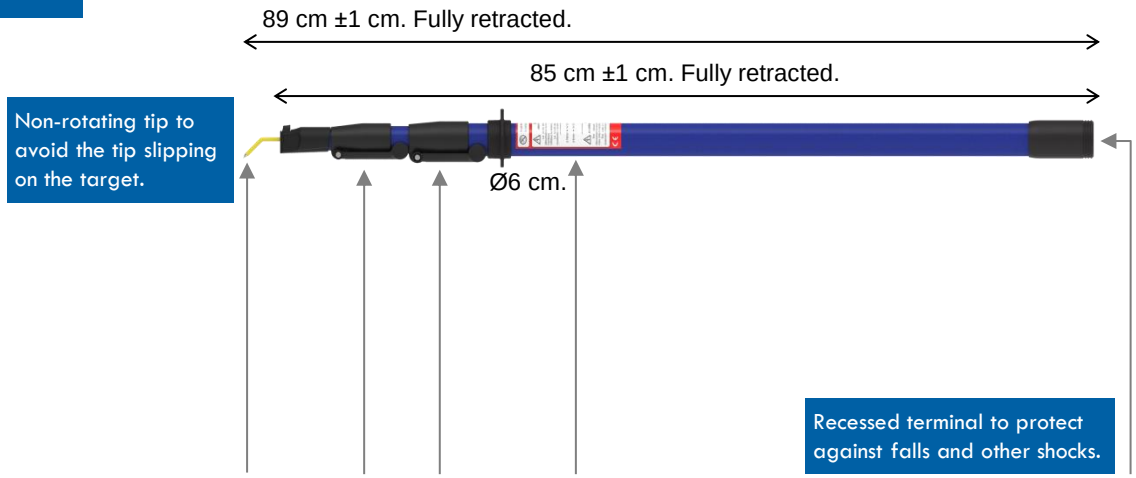
Safety : 1000 V CAT III / 1000 V CAT IV, reinforced insulation, pollution degree 3, 3 amperes.

Non-rotating tubes. The very low continuity resistance comes from the inner coiled wire. To avoid multiple rotations of the tubes that would cut the inner coiled wire, the tubes are non-rotating.

The protective fingerguard is remote to offer a two-hand handling area.

Description.	High rigidity 2,16-meter long 1000 V CAT IV telescopic probe.
Fully retracted / deployed length.	85 cm / 216 cm. (89 cm / 220 cm including test tip.)
Safety according to EN / IEC 61010-031.	1000 V CAT III / 1000 V CAT IV, reinforced insulation, pollution degree 3, 3 amperes. With protective fingerguard.
Global rigidity.	High rigidity.
Weight.	0,75 kg (including test tip).
Color.	Blue.
Continuity resistance.	0,10 Ω. (Coiled conductor.)
Test tip description.	Locking insulated test tip. Included. (Spare part number : ATP-Pointe)
Part number.	Xtrio-3B216

High rigidity low weight telescopic tubes.



Non-rotating tip to avoid the tip slipping on the target.

Recessed terminal to protect against falls and other shocks.

Locking insulated test tip. When damaged the test tip can be removed and replaced with a new one.

Fast locking systems of the telescopic tubes.

Safety markings. Electro-PJP's marking. CE marking.

The 4 mm banana female terminal complies with the 4 mm banana connectors of most of the worldwide manufacturers.

Electro-PJP
France
www.electro-pjp.com

Telescopic probes

Designation : telescopic probes (telescoping rods).

Table of the telescopic probes.

Description.	Fully retracted / deployed length.	Safety according to EN / IEC 61010-031. (a)	Global rigidity. (c)	Weight.	Color.	Continuity resistance.	Removable test tip description.	Part number.
Telescopic probe.	47 cm / 83 cm. (50 cm / 86 cm including test tip.)	1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2 (b), 3 amperes.	Medium rigidity.	0,31 kg (includ. test tip).	Black.	0,10 Ω low resistance. (Telescopic conductors.)	Screwing insulated test tip. Included. (Spare part number : EPerchIsJ)	PerchTele
	51 cm / 85 cm. (55 cm / 89 cm including test tip.)	1000 V CAT III / 1000 V CAT IV, reinforced insulation, pollution degree 3 (b), 3 amperes. The highest safety.	High rigidity.	0,35 kg (includ. test tip).	Blue.	0,04 Ω very low resistance. (Coiled conductor.)	Locking insulated test tip. Included. (Spare part number : ATP-Pointe)	Xtrio-2B085
	85 cm / 216 cm. (89 cm / 220 cm including test tip.)			0,75 kg (includ. test tip).		0,10 Ω very low resistance. (Coiled conductor.)		Xtrio-3B216

- (a) The telescopic probes do not only offer electrical insulation, they offer electrical safety to operators. And the safety complies with the international and European EN / IEC 61010-031 standard and the European Low Voltage Directive 2014/35/EU. The safety considers both nominal voltages and transient overvoltages. The telescopic probes are made of fully insulating tubes, they are not coated or painted metal tubes.
- (b) The pollution degree indicates the level of pollution that may be present in the environment. A pollution degree 2 environment is a usual environment. While a pollution degree 3 environment is a more severe environment that may include some water condensation.
- (c) The higher the rigidity, the more the operator can easily scratch a coated or painted conductor. Because the telescopic probe does not bend while the operator is pressing the test tip to scratch.

Environmental conditions :
- Operating temperature range, from -15 °C to +50 °C.
- 80 % maxi. relative humidity up to 31 °C.
- Indoor use.
- Operating altitude, 2000 meters maxi. .
- Storage temperature range, from -20 °C to +60 °C.

Some probes are replaced or cancelled :
- Telescopic probe **ATP85** is replaced with Xtrio-2B085.
- Telescopic probe **ATP180** is replaced with Xtrio-3B216.
- Telescopic probe **ATP210** is replaced with Xtrio-3B216.
- Telescopic probe **PeTeT** is replaced with Xtrio-3B216.
- Probe 40432d4-IECIV-N is cancelled.
- Probe 40860d4-IECIV-N is cancelled.

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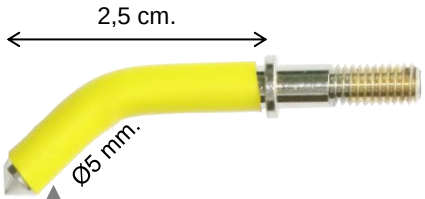
Test tips for PerchTele

Designation : two screwing insulated test tips for Electro-PJP PerchTele telescopic probe.

Description.	Screwing insulated 45 ° test tip for Electro-PJP PerchTele telescopic probe.
Length.	2,5 cm.
Color.	Yellow.
Part number.	EPerchIsJ



Screwing insulated 45 ° test tip for Electro-PJP PerchTele telescopic probe.

Electro-PJP PerchTele.

The risk of short-circuits between electric potentials is reduced thanks to the yellow insulating jacket.

Description.	Screwing insulated DCL test tip for Electro-PJP PerchTele telescopic probe.
Length.	3,9 cm.
Color.	White.
Part number.	EPerchPointDeCentre

DCL. Device for Connection of Luminaires. (“Dispositif de Connexion luminaire” in French.)

Screwing insulated DCL test tip for Electro-PJP PerchTele telescopic probe. Safety : 250 V CAT II. The DCL test tip connects the telescopic probe to the grounded contact of DCL.

Electro-PJP PerchTele.

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France
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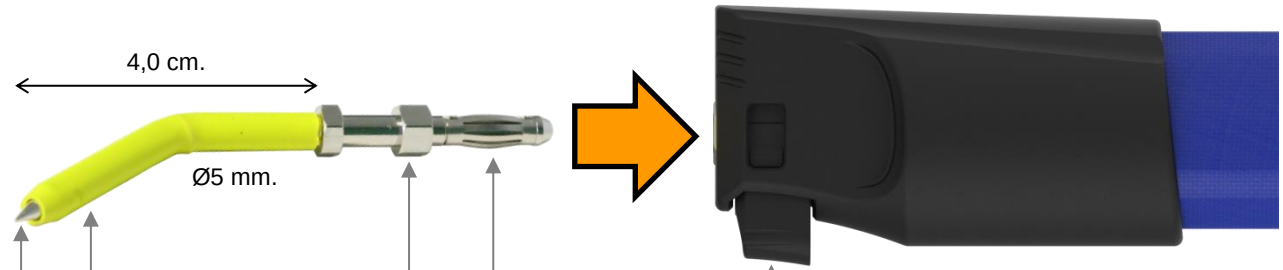
Test tip for Xtrio-2B085 and Xtrio-3B216

Designation : locking insulated test tip for Electro-PJP Xtrio-2B085 and Xtrio-3B216 telescopic probes.

Description.	Locking insulated 45 ° test tip for Electro-PJP Xtrio-2B085 and Xtrio-3B216 telescopic probes.
Length.	4,0 cm.
Color.	Yellow.
Part number.	ATP-Pointe



Locking insulated 45 ° test tip for Electro-PJP Xtrio-2B085 and Xtrio-3B216 telescopic probes.

Electro-PJP Xtrio-2B085 or Xtrio-3B216.

Pushing button of the telescopic probe to plug and lock the test tip.

The risk of short-circuits between electric potentials is reduced thanks to the yellow insulating jacket.

The electrical resistance is lowered thanks to the spring-loaded contact.

Coatings, paintings, stains, oxidations, … can be scratched thanks to the sharp tip.

The test tip cannot rotate when it is pressed by the operator thanks to the hexagonal shape.

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Transport bag for Xtrio-2B085 and Xtrio-3B216

Designation : transport bag for Electro-PJP Xtrio-2B085 and Xtrio-3B216 telescopic probes.

Description.	Transport bag for Electro-PJP Xtrio-2B085 and Xtrio-3B216 telescopic probes. **(Telescopic probe not included.)**
Dimensions.	91 cm x 13 cm.
Color.	Black.
Part number.	Bag1

Description.	Set of one telescopic probe Electro-PJP Xtrio-2B085 and one transport bag Electro-PJP Bag1.
Dimensions.	91 cm x 13 cm (dimensions of the transport bag).
Color.	Blue probe and black bag.
Part number.	Kit-Xtrio85

Description.	Set of one telescopic probe Electro-PJP Xtrio-3B216 and one transport bag Electro-PJP Bag1.
Dimensions.	91 cm x 13 cm (dimensions of the transport bag).
Color.	Blue probe and black bag.
Part number.	Kit-Xtrio216

Electro-PJP
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Telescopic probes.

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FRANCE

Conformity	• CE marking. • European Directive "Low Voltage Directive" 2014/35/UE. • European / international standard EN / IEC 61010-031. • European Directive "RoHS" 2011/65/EU. European Directive 2015/863/EU. • European regulation n°1907 / 2006 "REACH". • European regulation 2017 / 821 "Conflict minerals". • UKCA marking. • British statutory requirements 2016 No. 1101. The Electrical Equipment (Safety) Regulations 2016.
Environment	• "RoHS" compliant, Pb ≤ 4 %, Hg ≤ 0.1 %, Cr VI ≤ 0.1 %, Cd ≤ 0.01 %, PBB ≤ 0.1 %, PBDE ≤ 0.1 %, DEHP ≤ 0.1 %, BBP ≤ 0.1 %, DBP ≤ 0.1 %, and DIBP ≤ 0.1 %. • "REACH" compliant, no substances from the candidate list of SVHC for authorization at mass concentrations greater than 0.1 %.

GLOSSARY :

ACCESSIBLE. Able to be touched with a standard test finger or test pin.

BASIC INSULATION. Insulation of HAZARDOUS LIVE parts which provides basic protection.

CAT II. Measurement or overvoltage category II. For measurement performed on / equipment connected to the building wiring.

CAT III. Measurement or overvoltage category III. For measurement performed on / equipment connected to part of a building wiring installation.

CAT IV. Measurement or overvoltage category IV. For measurement performed on / equipment connected to the origin of the electrical supply to a building.

CLEARANCE. Shortest distance in air between two conductive parts.

CREEPAGE DISTANCE. Shortest distance along the surface of a solid insulating material between two conductive parts.

CTI. Comparative Tracking Index of the insulating material in accordance with IEC 60112.

DOUBLE INSULATION. Insulation comprising both BASIC INSULATION and SUPPLEMENTARY INSULATION.

EN / IEC 60529. European / international standard regarding the degrees of protection provided by enclosures.

EN / IEC 61010-1. European / international standard regarding the safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements.

EN / IEC 61010-031. European / international standard regarding the safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test.

"LVD". European Directive 2014/35/EU on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits. (Usually called the Low Voltage Directive.)

MAINS. Low-voltage electricity supply system to which the equipment concerned is designed to be connected for the purpose of powering the equipment.

MAINS CIRCUIT. Circuit which is intended to be directly connected to the MAINS for the purpose of powering the equipment.

OVERVOLTAGE CATEGORY. Numeral defining a TRANSIENT OVERVOLTAGE condition.

POLLUTION. Addition of foreign matter, solid, liquid or gaseous (ionized gases), that may produce a reduction of dielectric strength or surface resistivity.

POLLUTION DEGREE. Numeral indicating the level of POLLUTION that may be present in the environment.

POLLUTION DEGREE 1. No POLLUTION or only dry, non-conductive POLLUTION occurs, which has no influence.

POLLUTION DEGREE 2. Only non-conductive POLLUTION occurs except that occasionally a temporary conductivity caused by condensation is expected.

REINFORCED INSULATION. Insulation which provides protection against electric shock not less than that provided by DOUBLE INSULATION.

"RoHS". European Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

SOLID INSULATION. Insulating materials.

SUPPLEMENTARY INSULATION. Independent insulation applied in addition to BASIC INSULATION in order to provide protection against electric shock in the event of a failure of BASIC INSULATION.

TRANSIENT OVERVOLTAGE. Short duration overvoltage of a few milliseconds or less, oscillatory or non-oscillatory, usually highly damped.

WORKING VOLTAGE. Highest r.m.s. value of the a.c. or d.c. voltage across any particular insulation which can occur when the equipment is supplied at rated voltage.

