1.0 Purpose

Product Control Specifications (PCS) specify the requirements for routine inspections, tests, Product Verification Tests and sample selection for products certified under an Intertek EU Type 5 certification scheme (including GS, S, BEAB, ASTA, ENEC, BAUART and TICK MARK). They are for use by manufacturers and by factory inspectors.

2.0 Scope

Products:	Wiring accessories for fixed installations, including socket-outlets and fused connection units
Standards:	BS 1363-2, BS 1363-4, IEC 60884-1, EN 50075, SS 428 08 34, VDE 0620, SEMKO 107 (CEE7)
Marks:	S, ASTA, GS, BAUART, TICK

3.0 Routine inspections and tests

3.1 General

The following requirements apply to most products.
Variations may be permitted by prior, written agreement from the certification body.
The factory should have a quality plan defining all inspections and tests on materials, components and completed products as appropriate.
Completed products shall be marked to confirm satisfactory completion of all required testing.
Any products which fail inspection or testing shall be segregated and not allowed to continue through the process until rectified and re-inspected or retested.
Products shall not be released until the testing equipment has been checked again following a production batch.
Records of inspections and test should be maintained and held for at least two years (ten years for records of crimping.tests).
Records shall include:

- Type of product
- Date of test
- Place of manufacture
- Quantity tested
- Number of failures and actions taken

3.2 Required inspections and tests

Inspection/test	Test parameters	Sampling plan
All mouldings and parts correct, correctly formed and free from defects	Visual, check to work instructions	10 per day or shift
All internal connections (e.g. riveted or welded) correct	Visual, check to work instructions	10 per day or shift
Satisfactory appearance, markings and any user instructions correct and clear	Visual inspection	At least first and last of each batch or shift, minimum once per day
Check functioning of electrical test equipment	To suit, e.g. dummy samples to confirm detection of each fault condition	Start and end of each shift
Earthing of exposed conductive parts	Test at 25A, resistance not to exceed 0.05 ohm	100%
Correct polarity connection and continuity	SELV, 2 seconds (manual) SELV, 1 second (if automatic timing)	100%
Dielectric strength, L+N to PE and L to N	2,000Vac, 2 seconds (manual) 2,000Vac, 1 second (if automatic timing) No flash-over or breakdown Leakage current not to exceed 0.5mA Alternatively, Impulse test: 1.2/50uS wave form, 4kV peak, 3 impulses for each pole at 1 second intervals. No flashover shall occur	100%

4.0 Product Verification Tests/Periodic testing (refer to CIG 021 clause 4.8)

Product verification tests are in addition to the production line inspection and routine tests and are performed on samples taken randomly from the production line.

The manufacturer is responsible for conducting or arranging for the following periodic testing to be completed. Records shall be available for review during factory inspection visits.

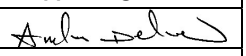
Certification Mark	Frequency	PVT/periodic testing required
SEMKO	Annual	For each basic type certified, the following tests according to the product standard: • Marking • Dimensions • Protection against electric shock • Provision for earthing • Terminations • Construction • Insulation resistance and electric strength • Mechanical strength • Creepage and clearance distances

5.0 Surveillance testing by the Certification Body

If required, samples are selected during the factory inspection and the manufacturer should send these to the address provided. If samples are required but not available at the time of the inspection, the manufacturer should send these as soon as they become available. If there is no stock or production, the manufacturer should advise the certification body that samples will not be provided due to no production.

The certification body will arrange for the required testing to be completed. This will be charged to the manufacturer or Licence holder. A report of the testing will be provided.

Certification Mark	Surveillance testing requirements
ASTA	Samples to be selected each year as detailed on the sample selection record (form AFT-17) provided to the inspector before each visit.
SEMKO	Regular selection of samples is not required. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected

Document History				
Revision No.	**Date**	**Changes**	**Name & Title**	
			Author	**Approving Official**
1	11/02/2015	Original issue	R W Hayward	

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