

The Voice of the Networks



Energy Networks Association

ENA TS 12-11 Issue 5 2018 Revision Summary

Enclosed unfilled terminations of cables with rated voltages 12, 24 and 36 kV

PURPOSE

TS 12-11 defines requirements for terminations of polymeric insulated cables within unfilled metal enclosures (cable boxes) attached to distribution switchgear and transformers

SCOPE

- Applies to single and 3-core polymeric insulated distribution cables to BS and IEC standards
- Covers termination types in current use in cable boxes, including separable plug-in designs and partially or fully insulated designs e.g. heat-shrink and cold-shrink
- Does not include detailed design and construction requirements

HISTORY

- Issue 4 2012
- Major revision 2018

Summary of Amendments

- Title changed to clarify scope and content
- Scope clause redrafted to define cable termination categories more clearly
- Additional cable standards included
- Normative standards references updated
- Text added to stress importance of adequate ventilation
- Reinforced emphasis on avoiding partial discharge activity within enclosures
- Clarification of termination categories

Nature of Revision

'Major' revision

**Amendments overseen by
ENA CAP and ENA SAP**

**Changes circulated with
BEAMA for their review
and comment, during
revision work**

Details of all amendments can be found in the accompanying 'Document Amendment Summary'

Who is affected and why?

- Designers and specifiers of distribution switchgear and transformers that include cable termination boxes
(To ensure that the enclosure is of adequate dimensions to suit cable and termination type, and is equipped with necessary phase bushings, earthing connection facility and adequate ventilation)
- Cable accessory manufacturers and suppliers
(To select terminations appropriate to cable type and size, with due regard to enclosure dimensions)
- Installation and commissioning staff
(To install terminations in accordance with suppliers' instructions with special regard to enclosure dimensional limitations and requirements for air clearances, if any)

Impact Assessment of Changes to TS 12-11

	Rating	Assessment
Safety	Nil	
Environment	Nil	
Financial (costs/benefits)	Nil	
Asset Quality & Performance	Minor	More emphasis on adequate ventilation and electrical clearances to help prevent partial discharge activity within the enclosure
Statutory/Regulatory	Nil	
Reputation	Nil	

Rating Categories

Nil

Negligible

Minor

Moderate

Major

The latest issue of the document is available from the ENA Engineering Catalogue via www.energynetworks.org. Further information can be obtained from ENA by emailing david.spillett@energynetworks.org