

Twin Disc Polymeric Insulator



This vandal resistant insulator is designed specifically to directly replace two ceramic cap and pin insulators to drawing 121/003/002 and 121/833/001 for use only in horizontal, in-line configurations.

This insulator can also be used to replace one cap and pin insulator where coupling length can be exceeded

Moulded on to high strength GRP rods, these insulators utilise Henley's unique EPDM dielectric cladding. This highly successful cladding has been proven around the world from deserts to arctic environments for more than 30 years. The material has outstanding pollution and weathering performance which, coupled with its non-flammability, also

makes it ideal for tunnels and stations where natural rain-washing is not possible.

These insulators have 16mm spun galvanised (to BS EN ISO 1461), cast SG iron ball and socket end-fittings (to BS 3288 and IEC publication 120). They are supplied with phosphor bronze security clips to IEC publication 372.

This insulator is also available with tongue and clevis end fittings to IEC 471.

The weight of this unit, which is approx. 1.6kgs contrasts with the porcelain equivalent at 11kgs, (for two porcelain discs) which makes handling and installation much easier.

- Network Rail Approval Number PA05/656T
- Network Rail Standard RT/E/S/21082
- Direct replacement for 2 off cap and pin insulators
- Unique Henley EPDM Cladding
- Vandal resistant and low profile.
- Very light weight (approx. 1.6kgs)
- Can be supplied with ball - socket or clevis - tongue end fittings.

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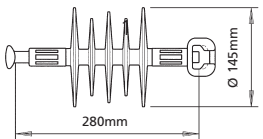
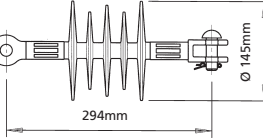
Thorne and Derrick UK

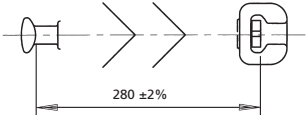
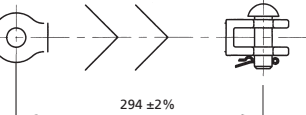
Tel 0044 191 490 1547 Fax 0044 191 477 5371
Tel 0044 117 977 4647 Fax 0044 117 9775582

The logo for TT electronics, featuring the letters 'TT' in a stylized font inside a dotted circle, followed by the word 'electronics' in a lowercase, sans-serif font.

The logo for T&D, consisting of the letters 'T' and 'D' in a bold, blue, sans-serif font, with an ampersand between them.

25kV AC Railway Insulators

| Product Code | Type Of Insulator |
|--------------|---|
| 56145-16 |  |
| 56145-14 |  |

| Network Rail Ref No. | Type of Insulator |
|---|---|
| 121/003/002 121/833/001 2 x Ø140mm CAP & PIN Insulators |  |
| 121/003/002 121/833/001 2 x Ø140mm Tongue / Clevis Insulators |  |

24kV Twin Disc Polymeric Insulator

Network Rail product approval: PA05/656T
With Ball and Socket or Tongue and Clevis end fittings
2 x 140mm Disc Centers equivalent
Weight: approx.1.6kg

Insulator Marking:

1. Product Code
2. Manufacture's identity
3. Year/Week number batch identity
4. Fitting designation
5. SML value

Electrical Data

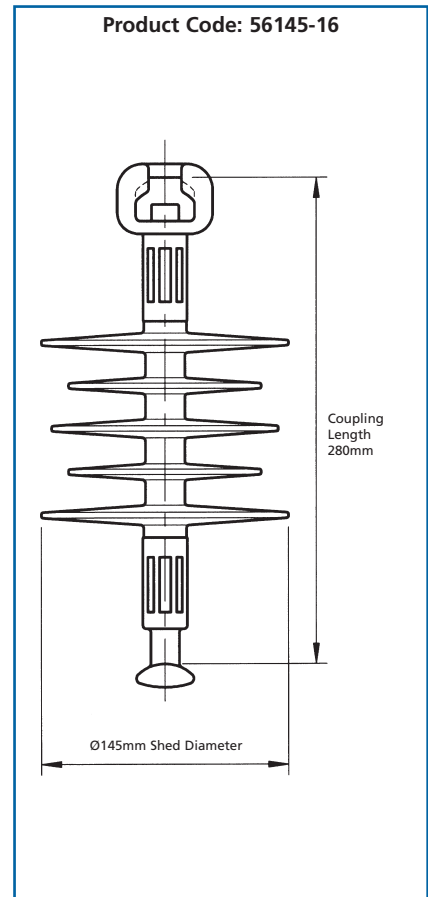
| Test | Value | Specification |
|-------------------------------|-------|-----------------------------|
| Creepage (mm) | 609 | IEC 815 |
| Taut String (mm) | 224 | |
| Impulse Flashover (DRY)(kVp) | 175 | IEC 383:1983 BS137: 1982 |
| Impulse Withstand (DRY)(kVp) | 165 | |
| AC 1 min. Flashover (DRY)(kV) | 114 | |
| AC 1 min. Withstand (DRY)(kV) | 105 | |
| AC 1 min. Flashover (WET)(kV) | 82 | |
| AC 1 min. Withstand (WET)(kV) | 70 | |

Mechanical Data

| Test | Value | Specification |
|-----------------------------|-------|---------------|
| Spec. Mech. Load (SML)(kN) | 70 | IEC 1109 |
| Routine Test Load (RTL)(kN) | 35 | |
| Min. Failing Torque (NM) | 40 | WT Henley |

Routine Production Tests

| Component | Test | Freq. | Specification |
|-------------------|--------------------------------|-------|---|
| Moulded Substrate | Water Immersion/ Electrical | 1% | BB.QA/P.1-A: 1988 |
| Final Assembly | Mechanical | 100% | 50% SML for 1 min. |
| Final Assembly | Mechanical | 1% | 50% SML for 1 min. 120% SML for 1 min. Pull to Fail |



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General Note The equipment detailed in this publication should be installed by a suitably qualified person. WT Henley Limited reserves the right to make changes in product specification without notice or liability. All information is subject to WT Henley's own data and is considered accurate at time of going to print.

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