

# Non Migratory TPS (BED)

Non-Migratory 3V90 Sheath 450/750V

## Applications

Can be installed in contact with polystyrene and polyurethane.  
Includes Caravans, Cold rooms, transportable buildings and  
in contact with polystyrene wall and roofing insulation materials.

## Product Specifications

### Construction:

**Conductor:** Plain Annealed Copper to AS1125

Drawn from Class 110A Copper AS1574

**Insulation:** Coloured V90HT PVC to AS/NZS 3808

**Sheath:** Coloured Non Migratory 3V90 to AS/NZS3808

**Relevant Standard:** AS/NZS 5000.2

### Core Colours:

1. Black, 2. Red, 3. Green/Yellow or 1. Red, 2. White, 3. Blue



| Current Code | New Code | No. of Cores | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Earth Nominal Area (mm <sup>2</sup> ) | Electrical Resistance @ 20°c (0/KM) | Nominal OD |
|--------------|----------|--------------|---------------------------------|-------------------|---------------------------------------|-------------------------------------|------------|
| BED3G05      | CVTP-1.5 | 3            | 1.5                             | 7/0.5             | 1.5                                   | 13.6                                | 4.6 x 9.9  |
| BED3705      | CVTE-1.5 | 2+E          | 1.5                             | 7/0.5             | 1.5                                   | 13.6                                | 4.6 x 9.9  |
| BED37067     | CVTE-2.5 | 2+E          | 2.5                             | 7/0.67            | 2.5                                   | 7.4                                 | 5.5 x 12.2 |
| BED37085     | CVTE-4   | 2+E          | 4                               | 7/0.85            | 2.5                                   | 4.61                                | 6.4 x 14.8 |
| BED37104     | CVTE-6   | 2+E          | 6                               | 7/1.04            | 2.5                                   | 3.08                                | 7.0 x 15.3 |

| Nominal Area (mm <sup>2</sup> ) | Current Rating    |                                             |                                               | Electrical Characteristics                         |                                                  |
|---------------------------------|-------------------|---------------------------------------------|-----------------------------------------------|----------------------------------------------------|--------------------------------------------------|
|                                 | Unenclosed in Air | Completely Surrounded by Thermal Insulation | Unenclosed Partially Surrounded by Insulation | Voltage Drop Single Phase mV/Am at 75° C Laid Flat | Voltage Drop Three Phase mV/Am @ 75° C Laid Flat |
| 1.5                             | 18                | 9                                           | 14                                            | 33.03                                              | 28.6                                             |
| 2.5                             | 26                | 13                                          | 19                                            | 18.02                                              | 15.6                                             |
| 4                               | 35                | 17                                          | 26                                            | 10.59                                              | 9.71                                             |
| 6                               | 46                | 22                                          | 34                                            | 7.50                                               | 6.49                                             |