

# TPS - Single Core

CU TPS 1X 2.5 BK WH 1HM

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

**Nexans Ref.:** AABP07A1001WTBK

**Country Ref.:** 7923.1

Cu Conductor, PVC insulation, PVC sheath. 450/750 V. Made to AS/NZS 5000.2

## DESCRIPTION

### Application

- Domestic, commercial and industrial general applications.
- Fixed applications



## STANDARDS

**National** AS/NZS 5000.2

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## CHARACTERISTICS

### Construction characteristics

|                                |                    |
|--------------------------------|--------------------|
| Colour                         | Black/White        |
| Type of conductor              | Circular, stranded |
| Conductor material             | Copper             |
| Insulation                     | PVC                |
| Outer sheath                   | PVC                |
| Sheath colour                  | White              |
| With Green/Yellow core         | No                 |
| With smaller neutral conductor | No                 |

### Dimensional characteristics

|  |                     |
|--|---------------------|
| Conductor cross-section                  | 2.5 mm <sup>2</sup> |
| Nominal overall diameter                 | 4.9 mm              |
| Gland Size (A2 or A2F)                   | 20S/16              |
| Approximate weight                       | 0.05 kg/m           |
| Neutral conductor section (when smaller) | - mm <sup>2</sup>   |
| Number of cores                          | 1                   |

### Electrical characteristics

|  |             |
|--|-------------|
| Max. DC resistance of the conductor at 20°C (Ohm/km) | 7.41        |
| Rated Voltage U <sub>0</sub> /U                      | 450/750 V   |
| Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )    | 450 / 750 V |

### Mechanical characteristics

|                   |       |
|-------------------|-------|
| Cable flexibility | Rigid |
|-------------------|-------|

### Usage characteristics

|                                       |       |
|---------------------------------------|-------|
| Max. conductor temperature in service | 75 °C |
|---------------------------------------|-------|

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## CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - TPS - SINGLE CORE

Copper conductor Circular stranded (except 1 mm<sup>2</sup> which is solid) Insulation PVC Max. Conductor Temperature 75C

| Conductor cross-section<br>[mm <sup>2</sup> ]  |                            |                             |  |  |  |  |  |
|--|---|--|---|---|---|---|---|
|  | Cu  | Cu   | Cu  | Cu  | Cu  | Cu  | Cu  |
| 2.5  | 33  | 26   | 27  | 43  | 40  | 35  | 14  |
|  Air Spaced from Surface, Unenclosed    |  Air touching, unenclosed  |  Air enclosed             |   |   |   |   |   |
|  Buried direct                          |  Buried in single-way duct |  Buried in multi-way duct |   |   |   |   |   |
|  Cable surrounded by thermal insulation |   |  |   |   |   |   |   |

## CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - TPS - SINGLE CORE

Copper conductor Circular stranded (except 1 mm<sup>2</sup> which is solid) Insulation PVC Max. Conductor Temperature 75C

| Conductor cross-section<br>[mm <sup>2</sup> ]  |                            |                             |  |  |  |  |  |
|--|---|--|---|---|---|---|---|
|  | Cu  | Cu   | Cu  | Cu  | Cu  | Cu  | Cu  |
| 2.5  | 29  | 26   | 24  | 30  | 36  | 30  | 14  |
|  Air Spaced from Surface, Unenclosed    |  Air touching, unenclosed  |  Air enclosed             |   |   |   |   |   |
|  Buried direct                          |  Buried in single-way duct |  Buried in multi-way duct |   |   |   |   |   |
|  Cable surrounded by thermal insulation |   |  |   |   |   |   |   |