

# TPS - Single Core

CU TPS 1X 16 RD WH 1HM

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

**Nexans Ref.:** AABP15A1001WVRD

**Country Ref.:** 2627.1

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

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## CHARACTERISTICS

### Construction characteristics

Colour	Red / 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	16 mm <sup>2</sup>
Nominal overall diameter	9.3 mm
Gland Size (A2 or A2F)	20S
Approximate weight	0.22 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)	1.15
Rated Voltage U <sub>o</sub> /U	450/750 V
Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	450 / 750 V

### Mechanical characteristics

Cable flexibility	Rigid
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### 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 [mm <sup>2</sup> ]							
	Cu	Cu	Cu	Cu	Cu	Cu	Cu
16	101	82	80	134	109	98	41
	Air Spaced from Surface, Unenclosed		Air touching, unenclosed		Air enclosed		Buried direct
	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 [mm <sup>2</sup> ]							
	Cu	Cu	Cu	Cu	Cu	Cu	Cu
16	88	82	71	114	99	86	41
	Air Spaced from Surface, Unenclosed		Air touching, unenclosed		Air enclosed		Buried direct
	Buried direct		Buried in single-way duct		Buried in multi-way duct		Cable surrounded by thermal insulation