

# TPS - Two Core +E

CU TPS 2X 1.0 RD 2HM

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

**Nexans Ref.:** CACP02A2002JBHF

**Country Ref.:** 8757.2

Cu conductors 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

Pilot wires	None
Sheath colour	Red
With Green/Yellow core	No
Conductor material	Copper
Insulation	PVC
Outer sheath	PVC
Core identification	Red,Black
Type of conductor	Solid copper
Wire colour	-
With smaller neutral conductor	No

### Dimensional characteristics

Conductor cross-section	1 mm <sup>2</sup>
Earth conductor cross section	- mm <sup>2</sup>
Nominal overall diameter	4.0 x 6.3
Approximate weight	0.05 kg/m
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Number of cores	2

### Electrical characteristics

Max. DC resistance of the conductor at 20°C (Ohm/km)	18.1
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
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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 - 2 CORES AND 2 CORES PLUS EARTH

PVC insulation For cables up to and including 450/750 V @ 50 Hz AC.

Conductor cross-section [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
1	17	16	15	19	19	8
 Air Spaced from Surface, Unenclosed	 Air touching, unenclosed		 Air enclosed			
 Buried direct	 Buried in single-way duct		 Cable surrounded by thermal insulation unenclosed			

### Note

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Please refer to the complete Standard for full details available for purchase from Standards New Zealand at [www.standards.co.nz](http://www.standards.co.nz).

The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature:30°C