

# TPS - Two Core & Two Core +E

CU TPS 2X 10+4E WH

## Contact

General Sales inquiries  
Phone: 0508 NEXANS  
sales.nz@nexans.com

Nexans ref.: CNZN13EC002WVHF

Country ref.: 4121

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	White
With Green/Yellow core	Yes
Conductor material	Copper
Insulation	PVC
Outer sheath	PVC
Type of conductor	Circular, stranded
Core identification	Red, Black, Green/Yellow
With smaller neutral conductor	No

### Dimensional characteristics

Conductor cross-section	10 mm <sup>2</sup>
Earth conductor cross section	4 mm <sup>2</sup>
Nominal overall diameter	8.5 x 20.4
Approximate weight	0.42 kg/m
Number of cores	2

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U	450/750 V
Rated Voltage U <sub>0</sub> /U (Um)	450 / 750 V
Max. DC resistance of the conductor at 20°C (Ohm/km)	1.83

### 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
1.5	22	21	18	23	23	10
2.5	31	30	26	33	33	15
4	42	39	34	43	43	19
6	52	50	44	55	55	25
10	73	68	59	73	73	34
16	97	91	78	125	95	46
25	129	122	103	162	123	60

 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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The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature:30°C