

# TPS - Two Core & Two Core +E

## Contact

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

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

## CHARACTERISTICS

### Construction characteristics

Conductor material	Copper
Insulation	PVC
Outer sheath	PVC

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U	450/750 V
---------------------------------	-----------

### Usage characteristics

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

# TPS - Two Core & Two Core +E

## Contact

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

## TWO CORE

Nexans ref.	Country ref.	Nb. of cores	Cross section [mm²]	Max. DC resist. of cond. at 20°C (Ohm/km)	Sheath colour	Wire colour	Nom. over. diam.	Approx. weight [kg/m]	Type of conductor
CACP02A1002JBHF	8757.1	2	1	18.1	Red	-	4.0 x 6.3	0.05	Solid copper
CACP02A2002JBHF	8757.2	2	1	18.1	Red	-	4.0 x 6.3	0.05	Solid copper
CACQ05A1002JBHF	1049.1	2	1.5	13.6	Red	-	4.7 x 7.4	0.07	Circular, stranded
CACQ05A2002JBHF	1049.2	2	1.5	13.6	Red	-	4.7 x 7.4	0.07	Circular, stranded
CACP05A1002WVAA	7373.1	2	1.5	13.6	White	-	4.7 x 7.4	0.07	Circular, stranded
CACP05AA002ASWV	2651.1	2	1.5	13.6	White	Red/Red	4.7 x 7.4	0.07	Circular, stranded
CACP07A1002JBHF	8313.1	2	2.5	7.41	Red	-	5.3 x 8.7	0.1	Circular, stranded
CACP07A1002WVAA	9880.1	2	2.5	7.41	White	-	5.3 x 8.7	0.1	Circular, stranded
CACP09A1002WVHF	5212.1	2	4	4.61	White	-	6.3 x 10.5	0.15	Circular, stranded
CACP11A1002WVHF	8552.1	2	6	3.08	White	-	7.0 x 11.6	0.2	Circular, stranded
CACP15AA002CXHF	6331	2	16	1.15	Black	-	10.0 x 17.2	0.46	Circular, stranded
DACP16AA002WVHF	3816	2	25	0.727	White	-	11.8 x 20.8	0.73	Circular, stranded

## TWO CORE PLUS EARTH

Nexans ref.	Country ref.	Nb. of cores	Cross section [mm²]	Max. DC resist. of cond. at 20°C (Ohm/km)	Earth cond. sect. [mm²]	Sheath colour	Nom. over. diam.	Approx. weight [kg/m]	Type of conductor
CNZP02A1002WVHF	9779.1	2	1	18.1	1	White	4.0 x 8.6	0.07	Circular, stranded
CNZP02A2002WVHF	9779.2	2	1	18.1	1	White	4.0 x 8.6	0.07	Circular, stranded
CNZP02A5002WVHF	9779.5	2	1	18.1	1	White	4.0 x 8.6	0.07	Circular, stranded
CNZQ05A1002WVHF	2521.1	2	1.5	13.6	1.5	White	4.7 x 10.2	0.09	Circular, stranded
CNZQ05A2002WVHF	2521.2	2	1.5	13.6	1.5	White	4.7 x 10.2	0.09	Circular, stranded
CNZQ05A5002WVHF	2521.5	2	1.5	13.6	1.5	White	4.7 x 10.2	0.09	Circular, stranded
CNZP07A1002WVHF	1080.1	2	2.5	7.41	2.5	White	5.3 x 12.0	0.14	Circular, stranded

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

Version 1.1 Generated 26/01/21 www.nexans.co.nz Page 2 / 4



# TPS - Two Core & Two Core +E

## Contact

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

Nexans ref.	Country ref.	Nb. of cores	Cross section [mm²]	Max. DC resist. of cond. at 20°C (Ohm/km)	Earth cond. sect. [mm²]	Sheath colour	Nom. over. diam.	Approx. weight [kg/m]	Type of conductor
CNZP07A2002WVHF	1080.2	2	2.5	7.41	2.5	White	5.3 x 12.0	0.14	Circular, stranded
CNZP07A5002WVHF	1080.5	2	2.5	7.41	2.5	White	5.3 x 12.0	0.14	Circular, stranded
CNZP09A1002WVHF	6646.1	2	4	4.61	2.5	White	6.4 x 14.8	0.19	Circular, stranded
CNZP09A2002WVHF	6646.2	2	4	4.61	2.5	White	6.4 x 14.8	0.19	Circular, stranded
CNZP09A5002WVHF	6646.5	2	4	4.61	2.5	White	6.4 x 14.8	0.19	Circular, stranded
CNCP11A2002WVHF	3146.2	2	6	3.08	2.5	White	6.9 x 16.4	0.27	Circular, stranded
CNCP11A5002WVHF	3146.5	2	6	3.08	2.5	White	6.9 x 16.4	0.27	Circular, stranded
CNZP11AA002WVHF	3146.1	2	6	3.08	2.5	White	6.9 x 16.4	0.27	Circular, stranded
CNZP13A1002WVHF	4121.1	2	10	1.83	4	White	8.5 x 20.4	0.42	Circular, stranded
CNZP13A5002WVHF	4121.5	2	10	1.83	4	White	8.5 x 20.4	0.42	Circular, stranded
CNZP13EC002WVHF	4121	2	10	1.83	4	White	8.5 x 20.4	0.42	Circular, stranded
CNZP15AA002CXHF	6565	2	16	1.15	6	Black	9.9 x 24.3	0.63	Circular, stranded







All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

Version 1.1 Generated 26/01/21 www.nexans.co.nz Page 3 / 4



## 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

© Copyright Standards New Zealand 2016.

Content in this table and the typical New Zealand installation conditions are derived from AS/NZS 3008.1.2:2017 and has been reproduced or adapted with permission from Standards New Zealand under Copyright Licence 000926. 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