TPS - Single Core

CU TPS 1X 4 RD WH 1HM

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

Nexans ref.: AABP09A1001WTRD
Country ref.: 2889.1

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	Red / white
Type of conductor	Circular, stranded
Conductor material	Copper
Insulation	PVC
Outer sheath	PVC
With Green/Yellow core	No
Sheath colour	White
With smaller neutral conductor	No
Dimensional characteristics	
Conductor cross-section	4 mm²
Nominal overall diameter	6.0 mm
Gland Size (A2 or A2F)	20S/16
Approximate weight	0.07 kg/m
Number of cores	1
Electrical characteristics	
Rated Voltage Uo/U	450/750 V
Rated Voltage Uo/U (Um)	450 / 750 V
Max. DC resistance of the conductor at 20°C (Ohm/km)	4.61
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 mm² which is solid) Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	18	15	15	24	23	20	7
1.5	24	18	21	31	29	25	9
2.5	33	26	27	43	40	35	14
4	44	35	36	56	52	45	18
6	56	46	47	71	64	57	23
10	76	62	62	94	85	76	31
16	101	82	80	134	109	98	41


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 mm² which is solid) Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	16	15	14	18	21	18	7
1.5	19	18	17	22	26	22	9
2.5	29	26	24	30	36	30	14
4	38	35	32	40	47	40	18
6	48	46	40	50	58	50	23
10	66	62	54	65	77	65	31
16	88	82	71	114	99	86	41


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