Power & distribution cables

AS/NZS 5000.2 Single-Core PVC/PVC 450/750V

AS/NZS 5000.2 / AS/NZS 1125 · 450/750 V · -25°C to +90°C · Min. bend 12 × OD

AS/NZS 5000.2 / AS/NZS 1125 | 450/750 V



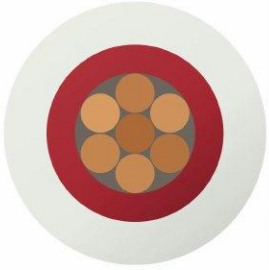
Application

AS/NZS 5000.2 Single-Core PVC/PVC 450/750V manufactured to AS/NZS 5000.2 / AS/NZS 1125, rated 450/750 V and -25°C to +90°C with a 12 × OD minimum bending radius for infrastructure & construction installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	Conductor	1×6.0 mm² (7/1.04 mm) Annealed Cu
2	Insulation & Core Identification	AS/NZS 3808 V-90 PVC red core insulation (6.0 mm² 7/1.04 mm Cu)
3	Screen / Bedding / Armour Layer	Double-insulated concentric interface between 1.0 mm V-90 insulation and 1.1 mm 3V-90 sheath
4	Outer Protective Sheath	White 3V-90 PVC outer protective sheath (OD 6.6 mm)

Technical data

Typical values

Nominal / reference voltage	450/750 V	Conductor & core insulation	1×6.0 mm² (7/1.04 mm) Annealed Cu · AS/NZS 3808 V-90 PVC red core insulation (6.0 mm² 7/1.04 mm Cu)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	AS/NZS 5000.2 / AS/NZS 1125
Minimum bending radius	12 × OD	Screening / armour architecture	Double-insulated concentric interface between 1.0 mm V-90 insulation and 1.1 mm 3V-90 sheath
Outer sheath material & colour	White 3V-90 PVC outer protective sheath (OD 6.6 mm)	Standards	AS/NZS 5000.2 / AS/NZS 1125

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
AS/NZS 5000.2 Single-Core PVC/PVC 450/750V 3 sizes										
☐ AS/NZS 5000.2 Single-Core PVC/PVC 450/750V (1×6 mm²)	1×6 mm²	Class 2 Stranded Plain Copper	AS/NZS 3808 V-90 PVC red core insulation	Industrial PVC	6.6	79	3.02	53.0	102	43 A
☐ AS/NZS 5000.2 Single-Core PVC/PVC 450/750V (1×10 mm²)	1×10 mm²	Class 2 Stranded Plain Copper	AS/NZS 3808 V-90 PVC red core insulation	Industrial PVC	7.8	94	1.81	74.4	143	60 A
☐ AS/NZS 5000.2 Single-Core PVC/PVC 450/750V (1×16 mm²)	1×16 mm²	Class 2 Stranded Plain Copper	AS/NZS 3808 V-90 PVC red core insulation	Industrial PVC	9.1	109	1.13	101.4	195	80 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ AS/NZS 5000.2 / AS/NZS 1125 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone **+86 185 9591 3361**

Email **info@tebaoflex.com**

Web **tebaoflex.com/cables/as-nzs-5000-2-single-core-pvc-pvc-450-750v**

Typical values for this cable type, based on Reference specification per AS/NZS 5000.2 / AS/NZS 1125 (AS/NZS 5000.2 Single-Core PVC/PVC 450/750V). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.