Power & distribution cables

AS/NZS 5000.1 Multicore XLPE/PVC Unarmoured

0.6/1kV



AS/NZS 5000.1 / AS/NZS 3008 · 0.6/1 kV · -25°C to +90°C · Min. bend 12 × OD

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Application

AS/NZS 5000.1 Multicore XLPE/PVC Unarmoured 0.6/1kV manufactured to AS/NZS 5000.1 / AS/NZS 3008, rated 0.6/1 kV 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**	4C×16 mm² + 1×6.0 mm² Earth Class 2 Cu
2	**Insulation & Core Identification**	AS/NZS 3808 X-90 XLPE insulation (16 mm² 7/1.70 mm Class 2 Copper)
3	**Screen / Bedding / Armour Layer**	Non-hygroscopic polypropylene filler & binder tape
4	**Outer Protective Sheath**	Black UV-stabilised 5V-90 PVC outer sheath (OD 21.8 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4C×16 mm² + 1×6.0 mm² Earth Class 2 Cu · AS/NZS 3808 X-90 XLPE insulation (16 mm² 7/1.70 mm Class 2 Copper)
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 5000.1 / AS/NZS 3008
Minimum bending radius	12 × OD	Screening / armour architecture	Non-hygroscopic polypropylene filler & binder tape
Outer sheath material & colour	Black UV-stabilised 5V-90 PVC outer sheath (OD 21.8 mm)	Standards	AS/NZS 5000.1 / AS/NZS 3008

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 5000.1 Multicore XLPE/PVC Unarmoured 3 sizes										
☐ AS/NZS 5000.1 Multicore XLPE/PVC Unarmoured (4C×16 mm²)	4C×16 mm²	Class 2 Stranded Plain Copper	AS/NZS 3808 X-90 XLPE insulation	Industrial PVC	21.8	262	1.13	580.8	1,117	80 A
☐ AS/NZS 5000.1 Multicore XLPE/PVC Unarmoured (4C×25 mm²)	4C×25 mm²	Class 2 Stranded Plain Copper	AS/NZS 3808 X-90 XLPE insulation	Industrial PVC	25.7	308	0.72	808.6	1,555	106 A
☐ AS/NZS 5000.1 Multicore XLPE/PVC Unarmoured (4C×35 mm²)	4C×35 mm²	Class 2 Stranded Plain Copper	AS/NZS 3808 X-90 XLPE insulation	Industrial PVC	30.1	361	0.52	1,106.0	2,127	131 A

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

Standards and approvals

- ✓ AS/NZS 5000.1 / AS/NZS 3008 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-5000-1-multicore-xlpe-pvc-unarmoured-0-6-1kv

Typical values for this cable type, based on Reference specification per AS/NZS 5000.1 / AS/NZS 3008 (AS/NZS 5000.1 Multicore XLPE/PVC Unarmoured). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.